

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐
(highlight changes)

APPLICATION FOR PERMIT TO DRILL		5. MINERAL LEASE NO: STUO-08512-ST	6. SURFACE: State
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
8. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		8. UNIT OR CA AGREEMENT NAME: UNIT #891008900A	
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE L.P.		9. WELL NAME and NUMBER: NBU 1022-13M2CS	
3. ADDRESS OF OPERATOR: 1368 S 1200 E CITY VERNAL STATE UT ZIP 84078		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 1552'FSL, 1289'FWL AT PROPOSED PRODUCING ZONE: 750'FSL, 270'FWL SWSW <i>637337X 4422783Y 39.945923 -109.392421</i> <i>637032X 4422572Y 39.943713 -109.396048</i>		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSW 13 10S 22E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 27.7 MILES SOUTH OF OURAY, UTAH		12. COUNTY: UINTAH	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 1289'	16. NUMBER OF ACRES IN LEASE: 600.00	17. NUMBER OF ACRES ASSIGNED TO THIS WELL:	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) REFER TO TOPO C	19. PROPOSED DEPTH: 8,220	20. BOND DESCRIPTION: PLD0000000 220(3542	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5278'GL	22. APPROXIMATE DATE WORK WILL START:	23. ESTIMATED DURATION:	

24. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
12 1/4"	9 5/8 32.3# H-40	2,100	265 SX CLASS G 1.18 YIELD 15.6 PPG
7 7/8"	4 1/2 11.6# I-80	8,220	1320 SX 50/50 POZ 1.31 YIELD 14.3 PPG

25. ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

- | | |
|--|--|
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN |
| <input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER | <input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER |

NAME (PLEASE PRINT) SHEILA UPCHEGO

TITLE SENIOR LAND ADMIN SPECIALIST

SIGNATURE

DATE 7/31/2007

(This space for State use only)

Approved by the
Utah Division of
Oil, Gas and Mining

API NUMBER ASSIGNED: 43-047-39488

APPROVAL:

Date: 09-11-07

(See Instructions on Reverse Side)

By: [Signature]

RECEIVED
AUG 06 2007

DIV. OF OIL, GAS & MINING

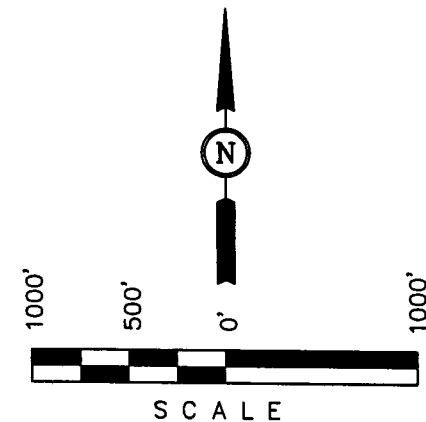
T10S, R22E, S.L.B.&M.

Kerr-McGee Oil & Gas Onshore LP

Well location, NBU #1022-13M2CS, located as shown in the NW 1/4 SW 1/4 of Section 13, T10S, R22E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.



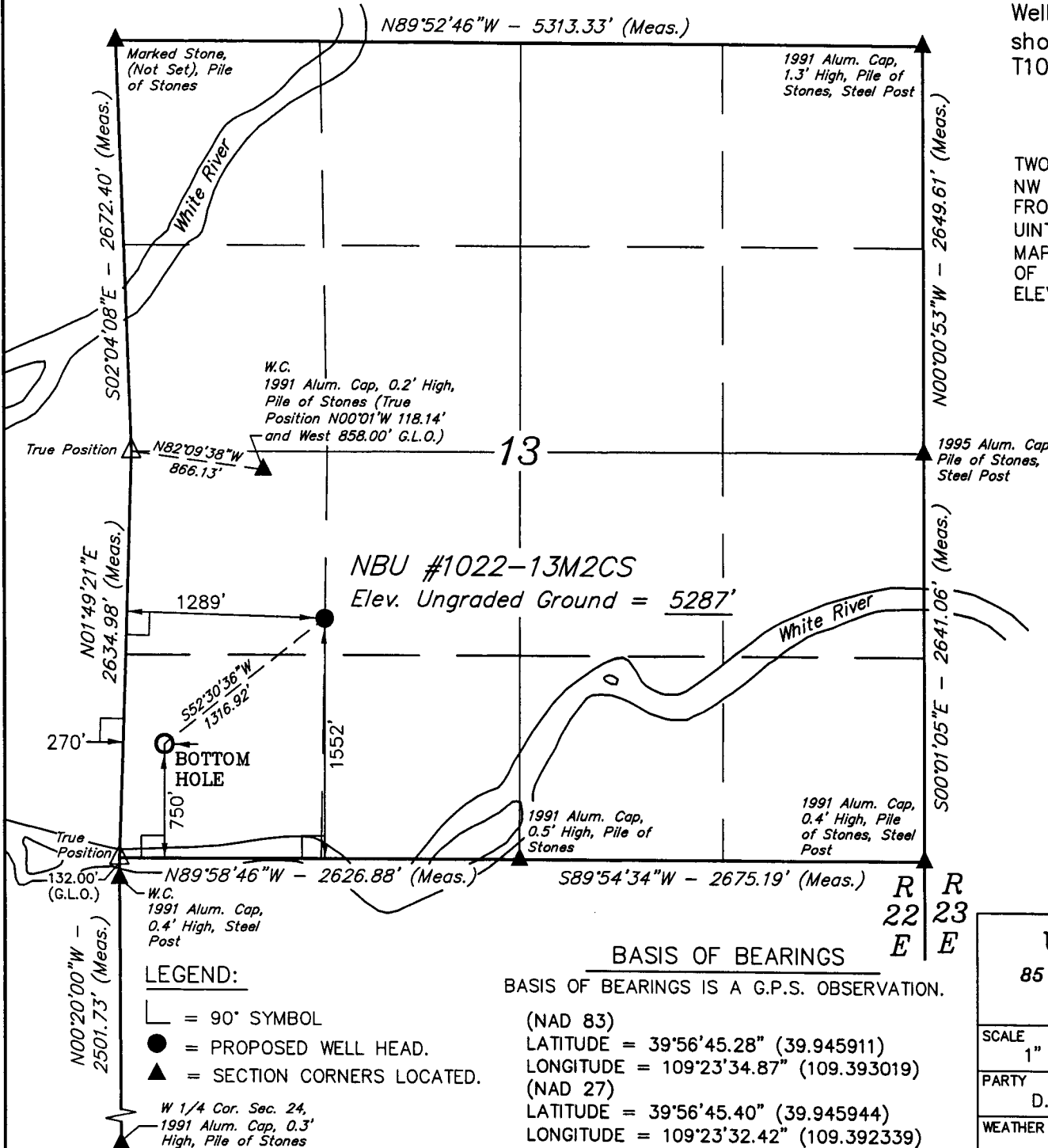
CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

[Signature]
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

UNTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 5-17-07	DATE DRAWN: 6-13-07
PARTY D.K. L.K. K.G.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE Kerr-McGee Oil & Gas Onshore LP	



LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

(NAD 83)
LATITUDE = 39°56'45.28" (39.945911)
LONGITUDE = 109°23'34.87" (109.393019)
(NAD 27)
LATITUDE = 39°56'45.40" (39.945944)
LONGITUDE = 109°23'32.42" (109.392339)



Kerr McGee Oil and Gas Onshore LP
1368 SOUTH 1200 EAST • VERNAL, UT 84078
435-789-4433 • FAX 435-781-7094

July 31, 2007

Diana Whitney
State of Utah
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-5801

RE: Directional Drilling R649-3-11
NBU 1022-13M2CS 1552'FSL, 1289'FWL (Surface)
750'FSL, 270'FWL (Bottomhole)
Uintah County, Utah

Dear Ms. Whitney:

Pursuant to filling of Kerr McGee Oil & Gas Onshore L.P. Application for Permit to Drill regarding the above referenced well on July 31, 2007, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to location and siting of wells.

- NBU 1022-13M2CS is located within the Natural Buttes Unit Area.
- Kerr McGee Oil & Gas Onshore L.P., is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr McGee Oil & Gas Onshore L.P., will be able to utilize the existing road and pipeline in the area.
- Furthermore, Kerr McGee Oil & Gas Onshore L.P. hereby certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information Kerr McGee Oil & Gas Onshore L.P. requests that the permit be granted pursuant to R649-3-11.

Sincerely,

A handwritten signature in black ink, appearing to read 'Sheila Upchego', written over the typed name and title.

Sheila Upchego
Senior Land Admin Specialist

RECEIVED
AUG 06 2007
DIV. OF OIL, GAS & MINING

**NBU 1022-13M2CS
NW/SW SEC. 13, T10S, R22E
UINTAH COUNTY, UTAH
UTSTUO-08512-ST**

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers:

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	949'
Top of Birds Nest Water	1283'
Mahogany	1623'
Wasatch	3996'
Mesaverde	6222'
MVU2	7089'
MVL1	7665'
TD	8220'

2. Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Water	Green River	949'
	Top of Birds Nest Water	1283'
	Mahogany	1623'
Gas	Wasatch	3996'
Gas	Mesaverde	6222'
Gas	MVU2	7089'
Gas	MVL1	7665'
Water	N/A	
Other Minerals	N/A	

3. Pressure Control Equipment (Schematic Attached)

Please refer to the attached Drilling Program.

4. Proposed Casing & Cementing Program:

Please refer to the attached Drilling Program.

5. Drilling Fluids Program:

Please refer to the attached Drilling Program.

The operator will use fresh water mud with 0-8% Bio Diesel.

6. **Evaluation Program:**

Please refer to the attached Drilling Program.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 8220' TD, approximately equals 5096 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3288 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

Drilling is planned to commence immediately upon approval of this application.

9. **Variances:**

Please refer to the attached Drilling Program.

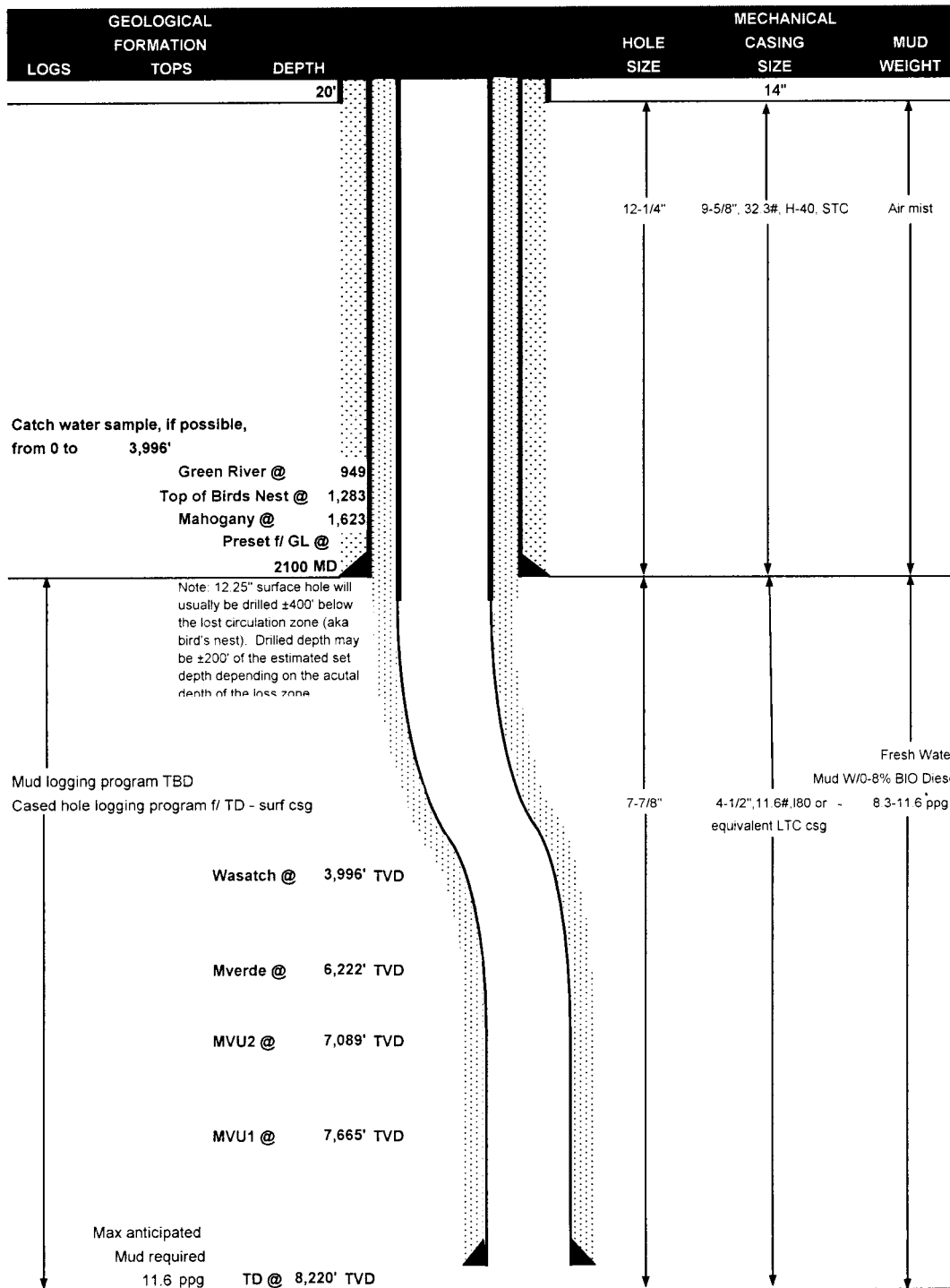
10. **Other Information:**

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP **DRILLING PROGRAM**

COMPANY NAME KERR-McGEE OIL & GAS ONSHORE LP DATE July 31, 2007
WELL NAME NBU 1022-13M2CS TD 8,220' TVD
FIELD Natural Buttes COUNTY Uintah STATE Utah ELEVATION 5,287' GL KB 5,302'
SURFACE LOCATION NW/SW SEC. 13, T10S, R22E 1552'FSL, 1289'FWL
Latitude: 39.945911 Longitude: 109.393019
BTM HOLE LOCATION SW/SW/SW SEC. 13, T10S, R22E 750'FSL, 270'FWL
OBJECTIVE ZONE(S) Wasatch/Mesaverde
ADDITIONAL INFO Regulatory Agencies: UDOGM (MINERALS AND SURFACE), BLM, Tri-County Health Dept.





KERR-McGEE OIL & GAS ONSHORE LP **DRILLING PROGRAM**

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
						2270	1370	254000
SURFACE	9-5/8"	0 to 2100	32.30	H-40	STC	0.72*****	1.39	4:28
						7780	6350	201000
PRODUCTION	4-1/2"	0 to 8220	11.60	I-80	LTC	2.47	1.28	2.42

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point)

2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 0.0 ppg)

.22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 3150 psi

***** Burst SF is low but csg is much stronger than formation at 2000'. EMW @ 2000' for 2270# is 21.8 ppg or 1.13 psi/ft

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl	215	60%	15.60	1.18
Option 1			+ .25 pps flocele				
	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt	50		15.60	1.18
			+ 2% CaCl + .25 pps flocele				
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
Option 2	LEAD	1500	65/35 Poz + 6% Gel + 10 pps gilsonite	360	35%	12.60	1.81
			+ .25 pps Flocele + 3% salt BWOW				
	TAIL	500	Premium cmt + 2% CaCl	180	35%	15.60	1.18
			+ .25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	5,720'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	620	60%	11.00	3.38
	TAIL	2,500'	50/50 Poz/G + 10% salt + 2% gel	700	60%	14.30	1.31
			+ .1% R-3				

*Substitute caliper hole volume plus 15% excess if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

Brad Laney

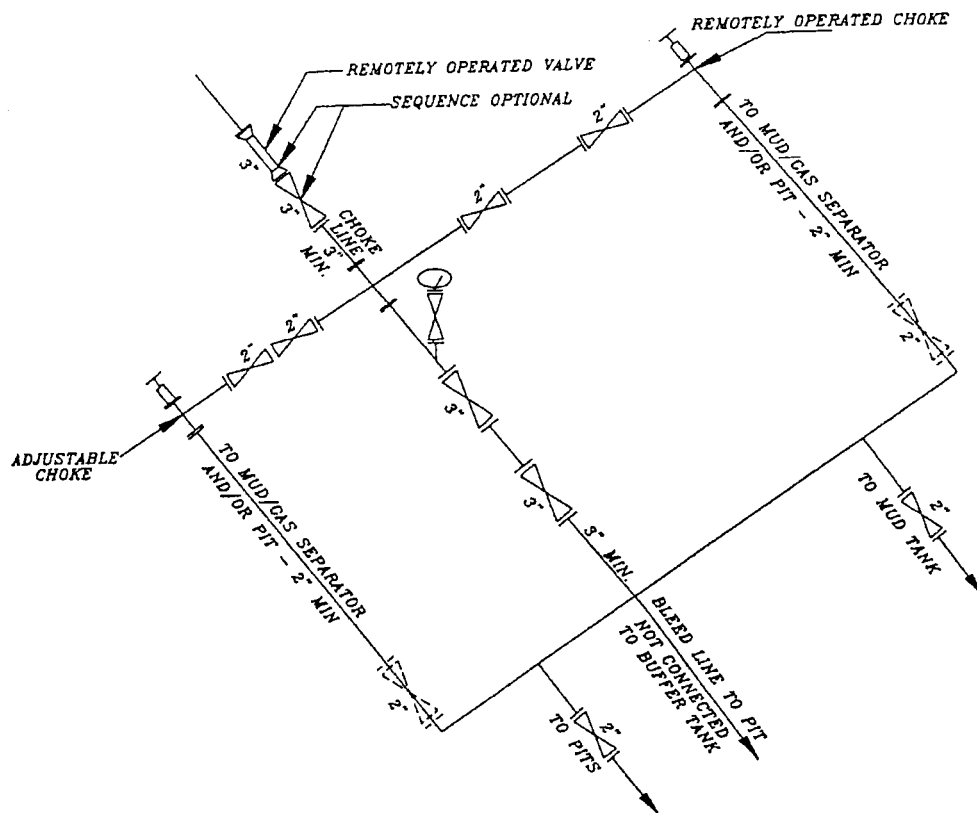
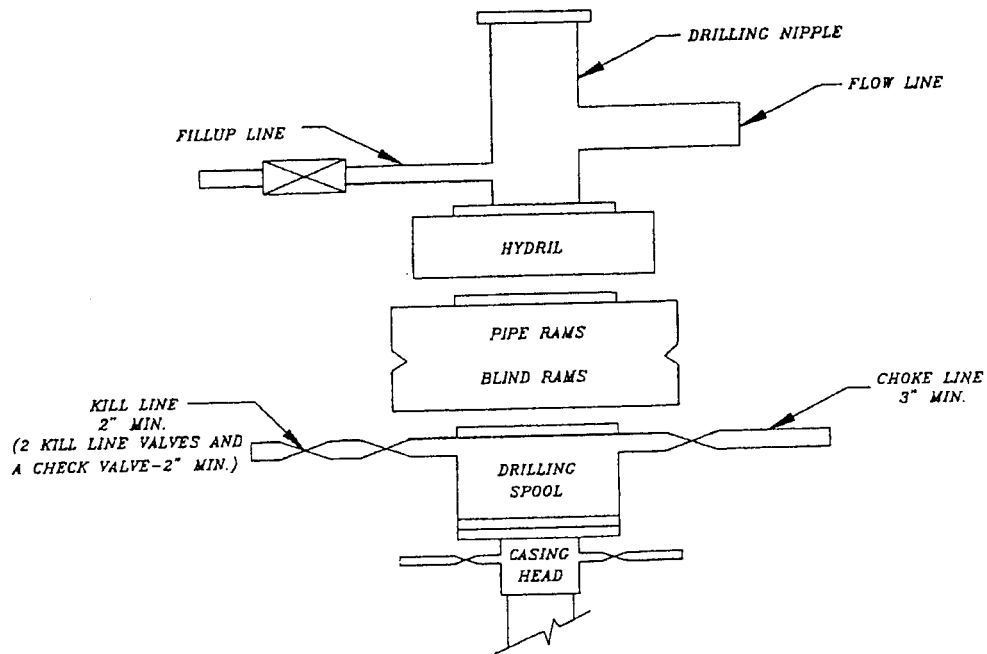
DATE:

DRILLING SUPERINTENDENT:

Randy Bayne

DATE:

5M BOP STACK and CHOKE MANIFOLD SYSTEM



**NBU 1022-13M2CS
NW/SW SEC. 13, T10S, R22E
Uintah County, UT
UTSTUO-08512-ST**

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. Existing Roads:

Refer to Topo Map A for directions to the location.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

Refer to Topo Maps A and B for location of access roads within a 2 mile radius.

All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

2. Planned Access Roads:

The operator will utilize an existing access road. Refer to Topo Map B for the location of the existing access road.

The upgraded and new portions of the access road will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30 feet. Appropriate water control will be installed to control erosion.

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site.

The access road was centerline flagged during time of staking.

Surfacing material may be necessary, depending upon weather conditions.

Surface disturbance and vehicular traffic will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

3. Location of Existing Wells Within a 1-Mile Radius:

Please refer to Topo Map C.

4. Location of Existing & Proposed Facilities:

The following guidelines will apply if the well is productive.

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain

fluids (i.e., production tanks, produced water tanks, and/or heater/treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

All permanent (on-site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The required color is Carlsbad Canyon, standard color number 2.5Y 6/2.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

A 30' rights of way will be required for approximately 12,184' +/- of 6" steel pipeline is proposed. The pipeline shall run from the location into Section 18, T10S, R23E (Lease #UTU-38421) and travel north into Sec. 7, T10S, R23E (Lease #UTU-49226) to tie-in to an existing pipeline. Refer to the attached Topo Map D for pipeline placement.

A 30' rights of way will be required for approximately 12,184' +/- of 10" steel pipeline is proposed. The pipeline shall run from the location into Section 18, T10S, R23E (Lease #UTU-38421) and travel north into Sec. 7, T10S, R23E (Lease #UTU-49226) to tie-in to an existing pipeline. Refer to the attached Topo Map D for pipeline placement.

5. Location and Type of Water Supply:

Water for drilling purposes will be obtained from Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32, T4S, R3E, Water User Claim #43-8496, Application #53617.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

6. Source of Construction Materials:

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

7. Methods of Handling Waste Materials:

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

Due to difficult topography and proximity to the White River, the reserve pit will be constructed utilizing a double liner and felt. The liner will be approximately 60 mil in thickness versus our standard 20 mil and the reserve pit will also have a leak detection system installed between the liners.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical porta-toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

Any produced water from the proposed well will be contained in a water tank and will then be hauled By truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S, R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E.

8. Ancillary Facilities:

None are anticipated.

9. Well Site Layout: (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

The reserve pit will be lined, and when the reserve pit is closed, the pit liner will be buried below plow depth.

All pits will be fenced according to the following minimum standards:

39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

The reserve pit fencing will be on three sides during drilling operations, and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Location size may change prior to the drilling of the well due to current rig availability. If the proposed location is not large enough to accommodate the drilling rig the location will be re-surveyed and a Form 9 shall be submitted.

10. Plans for Reclamation of the Surface:

Producing Location:

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.

Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

A plastic, nylon reinforced liner will be used, it shall be torn and perforated before backfilling of the reserve pit.

Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.

To prevent surface water (s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface three feet above surrounding ground surface to allow the reclaimed pit area to drain effectively.

Upon completion of backfilling, leveling, and recontouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

Dry Hole/Abandoned Location:

Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and re-establishment of vegetation as specified.

All disturbed surfaces will be recontoured to the approximate natural contours, with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. Reseeding operations will be performed after completion of other reclamation operations.

11. Surface Ownership:

SITLA
675 East 500 South, Suite 500
Salt Lake City, UT 84102

12. Other Information:

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved Plan of Operations, and any applicable Notice of Lessees. The Operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

The Operator will control noxious weeds along Rights-Of-Way for roads, pipelines, well sites, or other applicable facilities.

A Class III archaeological survey will be submitted when report becomes available.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it within 460' of any non-committed tract lying within the boundaries of the Unit.

13. Lessee's or Operators's Representative & Certification:

Sheila Upchego
Senior Land Admin Specialist
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East.
Vernal, UT 84078
(435) 781-7024

Randy Bayne
Drilling Manager
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, UT 84078
(435)781-7018

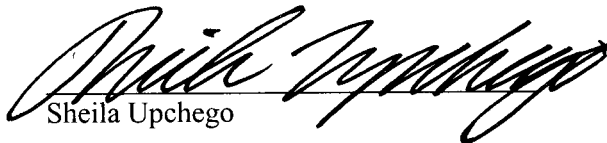
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by State Surety Bond #RLB0005237.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.


Sheila Upchego

7/31/2007

Date



Weatherford[®]

Drilling Services

Proposal



ANADARKO - KERR McGEE

NBU #1022-13M2CS

UINTAH COUNTY, UTAH

WELL FILE: PLAN2

DATE: JULY 12, 2007

Weatherford International, Ltd.

15710 John F. Kennedy Blvd

Houston, Texas 77032 USA

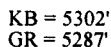
+1.281.260.1300 Main

+1.281.260.4730 Fax

www.weatherford.com

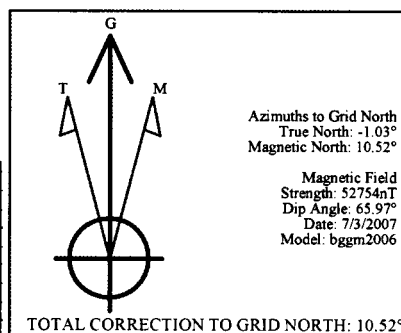


Weatherford



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	230.43	0.00	0.00	0.00	0.00	0.00	0.00	
2	2260.00	0.00	230.43	2260.00	0.00	0.00	0.00	0.00	0.00	
3	3460.00	30.00	230.43	3405.92	-195.59	-236.69	2.50	230.43	307.05	
4	4421.29	30.00	230.43	4238.42	-501.75	-607.21	0.00	0.00	787.69	
5	6421.29	0.00	230.43	6148.28	-827.73	-1001.70	1.50	180.00	1299.44	
6	8493.01	0.00	230.43	8220.00	-827.73	-1001.70	0.00	0.00	1299.44	PBHL 13M2CS

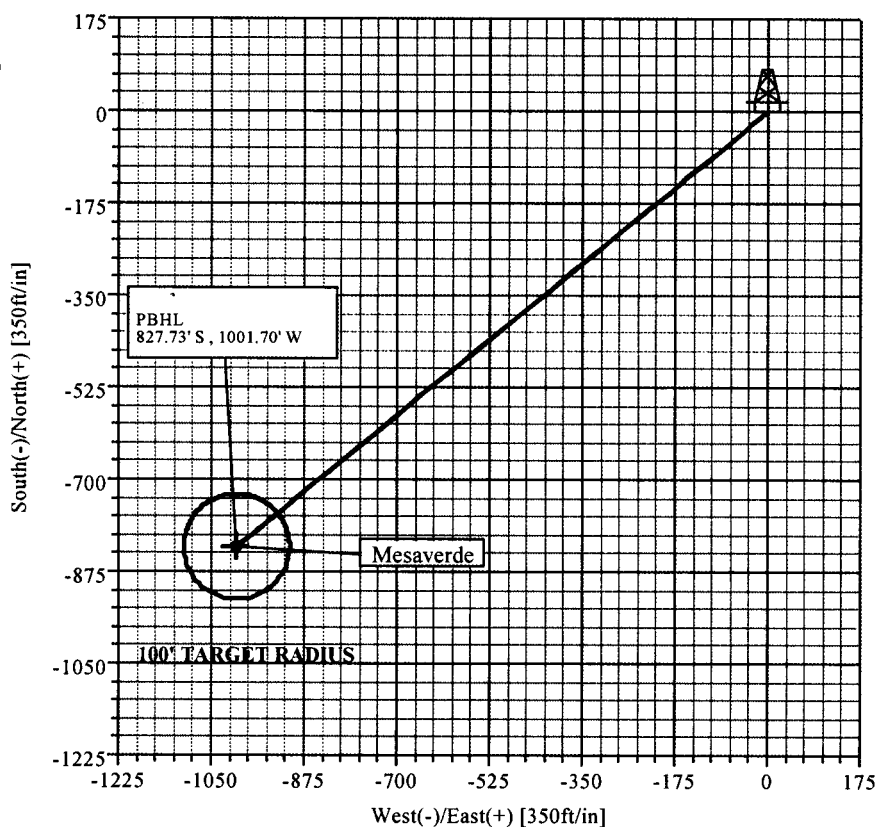
WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
13M2CS	0.00	0.00	14510394.50	2090946.40	39°56'45.156N	109°23'33.382W	N/A



FIELD DETAILS

Geodetic System: Universal Transverse Mercator (USfeet)
 Ellipsoid: NAD27 (Clarke 1866)
 Zone: UTM Zone 12, North 114W to 108W
 Magnetic Model: bggm2006

System Datum: Mean Sea Level
Local North: Grid North



Plan: Plan #2 (13M2CS/1)

Created By: R. JOYNER

Date: 7/13/2007

Weatherford Drilling Services

DIRECTIONAL PLAN REPORT



Weatherford

Company: Anadarko-Kerr-McGee Field: UTAH COUNTY, UTAH (UTM Zone 12N-NAD 27) Site: NBU 1022-13M2CS Well: 13M2CS Wellpath: 1	Date: 7/13/2007 Co-ordinate(NE) Reference: Site: NBU 1022-13M2CS, Grid North Vertical (TVD) Reference: SITE 5302.0 Section (VS) Reference: Well (0.00N,0.00E,230.43Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
---	--

Plan: Plan #2 Principal: No	Date Composed: 7/12/2007 Version: 1 Tied-to: From Surface
--	--

Field: UTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)

Map System: Universal Transverse Mercator (USfeet) Geo Datum: NAD27 (Clarke 1866) Sys Datum: Mean Sea Level	Map Zone: UTM Zone 12, North 114W to 108W Coordinate System: Site Centre Geomagnetic Model: bggm2006
--	---

Site: NBU 1022-13M2CS

Site Position: From: Map Position Uncertainty: 0.00 ft Ground Level: 5287.00 ft	Northing: 14510394.50 ft Easting: 2090946.40 ft	Latitude: 39 56 45.156 N Longitude: 109 23 33.382 W North Reference: Grid Grid Convergence: 1.03 deg
--	--	---

Well: 13M2CS **Slot Name:**

Well Position: +N/-S 0.00 ft +E/-W 0.00 ft Position Uncertainty: 0.00 ft	Northing: 14510394.50 ft Easting : 2090946.40 ft	Latitude: 39 56 45.156 N Longitude: 109 23 33.382 W
--	---	--

Wellpath: 1

Current Datum: SITE Magnetic Data: 7/3/2007 Field Strength: 52754 nT Vertical Section: Depth From (TVD) ft 0.00	Height 5302.00 ft +N/-S ft 0.00	Drilled From: Surface Tie-on Depth: 0.00 ft Above System Datum: Mean Sea Level Declination: 11.55 deg Mag Dip Angle: 65.97 deg +E/-W Direction deg 0.00 230.43
---	--	---

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	230.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2260.00	0.00	230.43	2260.00	0.00	0.00	0.00	0.00	0.00	0.00	
3460.00	30.00	230.43	3405.92	-195.59	-236.69	2.50	2.50	0.00	230.43	
4421.29	30.00	230.43	4238.42	-501.75	-607.21	0.00	0.00	0.00	0.00	
6421.29	0.00	230.43	6148.28	-827.73	-1001.70	1.50	-1.50	0.00	180.00	
8493.01	0.00	230.43	8220.00	-827.73	-1001.70	0.00	0.00	0.00	0.00	PBHL 13M2CS

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
2100.00	0.00	230.43	2100.00	0.00	0.00	0.00	0.00	14510394.50	2090946.40	9 5/8"
2200.00	0.00	230.43	2200.00	0.00	0.00	0.00	0.00	14510394.50	2090946.40	
2260.00	0.00	230.43	2260.00	0.00	0.00	0.00	0.00	14510394.50	2090946.40	KOP
2300.00	1.00	230.43	2300.00	-0.22	-0.27	0.35	2.50	14510394.28	2090946.13	
2400.00	3.50	230.43	2399.91	-2.72	-3.30	4.27	2.50	14510391.78	2090943.10	
2500.00	6.00	230.43	2499.56	-8.00	-9.68	12.55	2.50	14510386.50	2090936.72	
2600.00	8.50	230.43	2598.75	-16.04	-19.41	25.17	2.50	14510378.46	2090926.99	
2700.00	11.00	230.43	2697.30	-26.82	-32.46	42.11	2.50	14510367.68	2090913.94	
2800.00	13.50	230.43	2795.02	-40.34	-48.81	63.32	2.50	14510354.16	2090897.59	
2900.00	16.00	230.43	2891.71	-56.55	-68.44	88.78	2.50	14510337.95	2090877.96	
3000.00	18.50	230.43	2987.21	-75.44	-91.30	118.43	2.50	14510319.06	2090855.10	
3100.00	21.00	230.43	3081.32	-96.96	-117.34	152.22	2.50	14510297.54	2090829.06	
3200.00	23.50	230.43	3173.87	-121.08	-146.53	190.08	2.50	14510273.42	2090799.87	
3300.00	26.00	230.43	3264.67	-147.75	-178.80	231.95	2.50	14510246.75	2090767.60	
3400.00	28.50	230.43	3353.57	-176.91	-214.09	277.73	2.50	14510217.59	2090732.31	

Weatherford Drilling Services

DIRECTIONAL PLAN REPORT



Weatherford

Company: Anadarko-Kerr-McGee Field: UTAH COUNTY, UTAH (UTM Zone 12N-NAD 27) Site: NBU 1022-13M2CS Well: 13M2CS Wellpath: 1	Date: 7/13/2007 Co-ordinate(NE) Reference: Site: NBU 1022-13M2CS, Grid North Vertical (TVD) Reference: SITE 5302.0 Section (VS) Reference: Well (0.00N,0.00E,230.43Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
---	---

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
3460.00	30.00	230.43	3405.92	-195.59	-236.69	307.05	2.50	14510198.91	2090709.71	HOLD
3500.00	30.00	230.43	3440.56	-208.33	-252.11	327.05	0.00	14510186.17	2090694.29	
3600.00	30.00	230.43	3527.16	-240.18	-290.65	377.05	0.00	14510154.32	2090655.75	
3700.00	30.00	230.43	3613.76	-272.03	-329.20	427.05	0.00	14510122.47	2090617.20	
3800.00	30.00	230.43	3700.36	-303.87	-367.74	477.05	0.00	14510090.63	2090578.66	
3900.00	30.00	230.43	3786.97	-335.72	-406.29	527.05	0.00	14510058.78	2090540.11	Wasatch
4000.00	30.00	230.43	3873.57	-367.57	-444.83	577.05	0.00	14510026.93	2090501.57	
4100.00	30.00	230.43	3960.17	-399.42	-483.37	627.05	0.00	14509995.08	2090463.03	
4141.37	30.00	230.43	3996.00	-412.60	-499.32	647.73	0.00	14509981.90	2090447.08	
4200.00	30.00	230.43	4046.77	-431.27	-521.92	677.05	0.00	14509963.23	2090424.48	
4300.00	30.00	230.43	4133.38	-463.12	-560.46	727.05	0.00	14509931.38	2090385.94	DROP
4400.00	30.00	230.43	4219.98	-494.97	-599.00	777.05	0.00	14509899.53	2090347.40	
4421.29	30.00	230.43	4238.42	-501.75	-607.21	787.69	0.00	14509892.75	2090339.19	
4500.00	28.82	230.43	4306.98	-526.37	-637.00	826.34	1.50	14509868.13	2090309.40	
4600.00	27.32	230.43	4395.22	-556.34	-673.28	873.39	1.50	14509838.16	2090273.12	
4700.00	25.82	230.43	4484.65	-584.83	-707.75	918.12	1.50	14509809.67	2090238.65	
4800.00	24.32	230.43	4575.23	-611.82	-740.42	960.49	1.50	14509782.68	2090205.98	
4900.00	22.82	230.43	4666.89	-637.29	-771.24	1000.48	1.50	14509757.21	2090175.16	
5000.00	21.32	230.43	4759.56	-661.23	-800.20	1038.05	1.50	14509733.27	2090146.20	
5100.00	19.82	230.43	4853.18	-683.61	-827.29	1073.18	1.50	14509710.89	2090119.11	
5200.00	18.32	230.43	4947.69	-704.42	-852.47	1105.85	1.50	14509690.08	2090093.93	
5300.00	16.82	230.43	5043.02	-723.65	-875.74	1136.04	1.50	14509670.85	2090070.66	
5400.00	15.32	230.43	5139.11	-741.28	-897.08	1163.72	1.50	14509653.22	2090049.32	
5500.00	13.82	230.43	5235.89	-757.30	-916.47	1188.87	1.50	14509637.20	2090029.93	
5545.36	13.14	230.43	5280.00	-764.03	-924.62	1199.44	1.50	14509630.47	2090021.78	
5600.00	12.32	230.43	5333.30	-771.70	-933.90	1211.48	1.50	14509622.80	2090012.50	
5700.00	10.82	230.43	5431.27	-784.48	-949.36	1231.54	1.50	14509610.02	2089997.04	
5800.00	9.32	230.43	5529.72	-795.62	-962.84	1249.02	1.50	14509598.88	2089983.56	
5900.00	7.82	230.43	5628.60	-805.11	-974.32	1263.92	1.50	14509589.39	2089972.08	
6000.00	6.32	230.43	5727.84	-812.95	-983.81	1276.23	1.50	14509581.55	2089962.59	
6100.00	4.82	230.43	5827.36	-819.13	-991.29	1285.93	1.50	14509575.37	2089955.11	
6200.00	3.32	230.43	5927.11	-823.65	-996.76	1293.03	1.50	14509570.85	2089949.64	
6300.00	1.82	230.43	6027.01	-826.50	-1000.22	1297.51	1.50	14509568.00	2089946.18	
6400.00	0.32	230.43	6126.99	-827.69	-1001.65	1299.38	1.50	14509566.81	2089944.75	
6421.29	0.00	230.43	6148.28	-827.73	-1001.70	1299.44	1.50	14509566.77	2089944.70	
6495.01	0.00	230.43	6222.00	-827.73	-1001.70	1299.44	0.00	14509566.77	2089944.70	Mesaverde
6500.00	0.00	230.43	6226.99	-827.73	-1001.70	1299.44	0.00	14509566.77	2089944.70	
6600.00	0.00	230.43	6326.99	-827.73	-1001.70	1299.44	0.00	14509566.77	2089944.70	
6700.00	0.00	230.43	6426.99	-827.73	-1001.70	1299.44	0.00	14509566.77	2089944.70	
6800.00	0.00	230.43	6526.99	-827.73	-1001.70	1299.44	0.00	14509566.77	2089944.70	
6900.00	0.00	230.43	6626.99	-827.73	-1001.70	1299.44	0.00	14509566.77	2089944.70	
7000.00	0.00	230.43	6726.99	-827.73	-1001.70	1299.44	0.00	14509566.77	2089944.70	
7100.00	0.00	230.43	6826.99	-827.73	-1001.70	1299.44	0.00	14509566.77	2089944.70	
7200.00	0.00	230.43	6926.99	-827.73	-1001.70	1299.44	0.00	14509566.77	2089944.70	
7300.00	0.00	230.43	7026.99	-827.73	-1001.70	1299.44	0.00	14509566.77	2089944.70	
7400.00	0.00	230.43	7126.99	-827.73	-1001.70	1299.44	0.00	14509566.77	2089944.70	
7500.00	0.00	230.43	7226.99	-827.73	-1001.70	1299.44	0.00	14509566.77	2089944.70	
7600.00	0.00	230.43	7326.99	-827.73	-1001.70	1299.44	0.00	14509566.77	2089944.70	
7700.00	0.00	230.43	7426.99	-827.73	-1001.70	1299.44	0.00	14509566.77	2089944.70	
7800.00	0.00	230.43	7526.99	-827.73	-1001.70	1299.44	0.00	14509566.77	2089944.70	
7900.00	0.00	230.43	7626.99	-827.73	-1001.70	1299.44	0.00	14509566.77	2089944.70	
8000.00	0.00	230.43	7726.99	-827.73	-1001.70	1299.44	0.00	14509566.77	2089944.70	
8100.00	0.00	230.43	7826.99	-827.73	-1001.70	1299.44	0.00	14509566.77	2089944.70	

Weatherford Drilling Services

DIRECTIONAL PLAN REPORT



Weatherford

Company: Anadarko-Kerr-McGee Field: UTAH COUNTY, UTAH (UTM Zone 12N-NAD 27) Site: NBU 1022-13M2CS Well: 13M2CS Wellpath: 1	Date: 7/13/2007 Co-ordinate(NE) Reference: Site: NBU 1022-13M2CS, Grid North Vertical (TVD) Reference: SITE 5302.0 Section (VS) Reference: Well (0.00N,0.00E,230.43Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
---	---

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
8200.00	0.00	230.43	7926.99	-827.73	-1001.70	1299.44	0.00	14509566.77	2089944.70	
8300.00	0.00	230.43	8026.99	-827.73	-1001.70	1299.44	0.00	14509566.77	2089944.70	
8400.00	0.00	230.43	8126.99	-827.73	-1001.70	1299.44	0.00	14509566.77	2089944.70	
8493.01	0.00	230.43	8220.00	-827.73	-1001.70	1299.44	0.00	14509566.77	2089944.70	PBHL 13M2CS

Targets

Name	Description	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec	<--- Longitude ---> Deg Min Sec
PBHL 13M2CS			8220.00	-827.73	-1001.70	14509566.77	2089944.70	39 56 37.154 N	109 23 46.434 W
-Circle (Radius: 100)									
-Plan hit target									

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
2100.00	2100.00	9.62	12.25	9 5/8"

Annotation

MD ft	TVD ft	
2260.00	2260.00	KOP
3460.00	3405.92	HOLD
4421.29	4238.42	DROP
5545.36	5280.00	ENTER TGT CYLINDER
6421.29	6148.28	HOLD
8493.01	8220.00	PBHL

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
949.00	949.00	Green River		0.00	0.00
4141.37	3996.00	Wasatch		0.00	0.00
6495.01	6222.00	Mesaverde		0.00	0.00

Weatherford Drilling Services

Anticollision Report



Weatherford

Company:	Anadarko-Kerr-McGee	Date: 7/12/2007	Time: 16:03:42	Page: 1
Field:	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)			
Reference Site:	NBU 1022-13M2CS	Co-ordinate(NE) Reference:	Site: NBU 1022-13M2CS, Grid North	
Reference Well:	13M2CS	Vertical (TVD) Reference:	SITE 5302.0	
Reference Wellpath:	1	Db: Sybase		

NO GLOBAL SCAN: Using user defined selection & scan criteria
Interpolation Method: MD **Interval:** 100.00 ft
Depth Range: 0.00 to 8493.01 ft
Maximum Radius: 10000.00 ft

Reference: Plan: Plan #2
Error Model: ISCWSA Ellipse
Scan Method: Closest Approach 3D
Error Surface: Ellipse

Plan: Plan #2

Date Composed: 7/12/2007

Principal: No

Version: 1

Tied-to: From Surface

Summary

Site	Offset Wellpath Well	Wellpath	Reference MD ft	Offset MD ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
NBU 1022-13M1S	13M1S	1 V0 Plan: Plan #1 V1	2200.00	2200.00	20.54	11.56	2.29	
NBU 1022-13N1S	13N1S	1 V0 Plan: Plan #2 V1	2300.00	2299.98	19.37	9.98	2.06	

Site: NBU 1022-13M1S

Well: 13M1S

Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	Offset Location North ft	East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	221.84	-15.30	-13.70	20.54			No Data
100.00	100.00	100.00	100.00	0.09	0.09	221.84	-15.30	-13.70	20.54	20.36	115.36	
200.00	200.00	200.00	200.00	0.30	0.30	221.84	-15.30	-13.70	20.54	19.94	34.41	
300.00	300.00	300.00	300.00	0.51	0.51	221.84	-15.30	-13.70	20.54	19.52	20.22	
400.00	400.00	400.00	400.00	0.72	0.72	221.84	-15.30	-13.70	20.54	19.10	14.32	
500.00	500.00	500.00	500.00	0.93	0.93	221.84	-15.30	-13.70	20.54	18.68	11.08	
600.00	600.00	600.00	600.00	1.14	1.14	221.84	-15.30	-13.70	20.54	18.26	9.04	
700.00	700.00	700.00	700.00	1.35	1.35	221.84	-15.30	-13.70	20.54	17.85	7.63	
800.00	800.00	800.00	800.00	1.56	1.56	221.84	-15.30	-13.70	20.54	17.43	6.60	
900.00	900.00	900.00	900.00	1.76	1.76	221.84	-15.30	-13.70	20.54	17.01	5.82	
1000.00	1000.00	1000.00	1000.00	1.97	1.97	221.84	-15.30	-13.70	20.54	16.59	5.20	
1100.00	1100.00	1100.00	1100.00	2.18	2.18	221.84	-15.30	-13.70	20.54	16.17	4.70	
1200.00	1200.00	1200.00	1200.00	2.39	2.39	221.84	-15.30	-13.70	20.54	15.75	4.29	
1300.00	1300.00	1300.00	1300.00	2.60	2.60	221.84	-15.30	-13.70	20.54	15.33	3.95	
1400.00	1400.00	1400.00	1400.00	2.81	2.81	221.84	-15.30	-13.70	20.54	14.91	3.65	
1500.00	1500.00	1500.00	1500.00	3.02	3.02	221.84	-15.30	-13.70	20.54	14.49	3.40	
1600.00	1600.00	1600.00	1600.00	3.23	3.23	221.84	-15.30	-13.70	20.54	14.08	3.18	
1700.00	1700.00	1700.00	1700.00	3.44	3.44	221.84	-15.30	-13.70	20.54	13.66	2.99	
1800.00	1800.00	1800.00	1800.00	3.65	3.65	221.84	-15.30	-13.70	20.54	13.24	2.81	
1900.00	1900.00	1900.00	1900.00	3.86	3.86	221.84	-15.30	-13.70	20.54	12.82	2.66	
2000.00	2000.00	2000.00	2000.00	4.07	4.07	221.84	-15.30	-13.70	20.54	12.40	2.52	
2100.00	2100.00	2100.00	2100.00	4.28	4.28	221.84	-15.30	-13.70	20.54	11.98	2.40	
2200.00	2200.00	2200.00	2200.00	4.49	4.49	221.84	-15.30	-13.70	20.54	11.56	2.29	
2300.00	2300.00	2299.06	2299.03	4.70	4.69	351.31	-16.89	-15.14	22.35	12.97	2.38	
2400.00	2399.91	2398.01	2397.76	4.91	4.90	350.07	-21.64	-19.43	24.96	15.17	2.55	
2500.00	2499.56	2496.83	2496.00	5.12	5.12	347.78	-29.54	-26.57	27.61	17.44	2.72	
2600.00	2598.75	2595.54	2593.58	5.35	5.35	344.73	-40.56	-36.53	30.35	19.82	2.88	
2700.00	2697.30	2694.13	2690.31	5.59	5.61	341.16	-54.66	-49.29	33.27	22.37	3.05	
2800.00	2795.02	2792.59	2786.01	5.86	5.90	337.24	-71.81	-64.79	36.43	25.15	3.23	
2900.00	2891.71	2890.92	2880.50	6.18	6.24	333.15	-91.97	-83.02	39.91	28.21	3.41	
3000.00	2987.21	2989.13	2973.63	6.55	6.63	329.00	-115.08	-103.92	43.76	31.59	3.60	
3100.00	3081.32	3087.31	3065.31	6.98	7.09	324.91	-141.12	-127.46	48.05	35.30	3.77	
3200.00	3173.87	3187.15	3157.86	7.48	7.61	319.46	-168.91	-152.58	50.80	37.21	3.74	
3300.00	3264.67	3286.87	3250.29	8.07	8.16	311.11	-196.67	-177.68	51.00	36.21	3.45	
3400.00	3353.57	3386.27	3342.42	8.74	8.74	298.85	-224.33	-202.69	50.03	33.52	3.03	
3500.00	3440.56	3485.21	3434.14	9.50	9.34	282.45	-251.87	-227.59	50.39	31.76	2.70	

Weatherford Drilling Services

Anticollision Report



Weatherford

Company:	Anadarko-Kerr-McGee	Date: 7/12/2007	Time: 16:03:42	Page: 2
Field:	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)			
Reference Site:	NBU 1022-13M2CS	Co-ordinate(NE) Reference:	Site: NBU 1022-13M2CS, Grid North	
Reference Well:	13M2CS	Vertical (TVD) Reference:	SITE 5302.0	
Reference Wellpath:	1	Db: Sybase		

Site: NBU 1022-13M1S
Well: 13M1S
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference MD ft	Reference TVD ft	Offset MD ft	Offset TVD ft	Semi-Major Axis Ref ft	Semi-Major Axis Offset ft	TFO-HS deg	Offset Location North ft	Offset Location East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
3600.00	3527.16	3584.05	3525.76	10.30	9.95	266.68	-279.38	-252.46	54.75	34.36	2.68	
3700.00	3613.76	3682.89	3617.37	11.13	10.58	253.99	-306.89	-277.33	62.60	40.99	2.90	
3800.00	3700.36	3781.73	3708.99	11.99	11.22	244.44	-334.40	-302.20	72.81	50.32	3.24	
3900.00	3786.97	3880.57	3800.61	12.87	11.87	237.36	-361.91	-327.08	84.53	61.31	3.64	
4000.00	3873.57	3979.40	3892.22	13.76	12.53	232.05	-389.42	-351.95	97.22	73.30	4.06	
4100.00	3960.17	4078.24	3983.84	14.66	13.20	227.98	-416.93	-376.82	110.55	85.92	4.49	
4200.00	4046.77	4176.05	4074.63	15.58	13.76	224.70	-443.92	-401.22	124.52	99.28	4.93	
4300.00	4133.38	4272.37	4164.82	16.50	14.07	221.44	-468.99	-423.88	140.27	114.76	5.50	
4400.00	4219.98	4367.85	4255.04	17.43	14.34	218.21	-492.17	-444.84	158.13	132.49	6.17	
4500.00	4306.98	4462.55	4345.27	18.21	14.59	215.13	-513.50	-464.13	177.53	151.95	6.94	
4600.00	4395.22	4556.81	4435.76	18.74	14.83	212.56	-533.08	-481.83	197.07	171.72	7.77	
4700.00	4484.65	4650.65	4526.46	19.27	15.05	210.40	-550.92	-497.96	216.60	191.44	8.61	
4800.00	4575.23	4744.07	4617.32	19.79	15.26	208.54	-567.03	-512.52	236.04	211.07	9.46	
4900.00	4666.89	4837.09	4708.28	20.29	15.43	206.92	-581.43	-525.54	255.34	230.57	10.31	
5000.00	4759.56	4929.70	4799.29	20.76	15.59	205.48	-594.13	-537.03	274.49	249.92	11.17	
5100.00	4853.18	5021.92	4890.31	21.22	15.72	204.19	-605.15	-546.99	293.43	269.07	12.05	
5200.00	4947.69	5113.76	4981.28	21.64	15.82	203.01	-614.50	-555.44	312.15	288.03	12.94	
5300.00	5043.02	5205.23	5072.15	22.03	15.90	201.93	-622.20	-562.40	330.64	306.78	13.86	
5400.00	5139.11	5296.32	5162.88	22.40	15.94	200.93	-628.26	-567.88	348.87	325.29	14.80	
5500.00	5235.89	5387.06	5253.42	22.72	15.96	200.00	-632.69	-571.89	366.83	343.57	15.77	
5600.00	5333.30	5477.45	5343.72	23.02	15.94	199.12	-635.53	-574.45	384.52	361.60	16.78	
5700.00	5431.27	5567.49	5433.74	23.27	15.90	198.29	-636.77	-575.58	401.91	379.37	17.83	
5800.00	5529.72	5663.47	5529.72	23.49	15.93	197.49	-636.84	-575.64	418.49	391.02	18.93	
5900.00	5628.60	5762.35	5628.60	23.67	16.01	196.83	-636.84	-575.64	432.74	405.40	20.09	
6000.00	5727.84	5861.58	5727.84	23.81	16.09	196.32	-636.84	-575.64	444.54	417.32	21.33	
6100.00	5827.36	5961.11	5827.36	23.91	16.17	195.94	-636.84	-575.64	453.87	426.74	22.67	
6200.00	5927.11	6060.85	5927.11	23.98	16.25	195.67	-636.84	-575.64	460.69	433.66	24.03	
6300.00	6027.01	6160.75	6027.01	24.00	16.34	195.50	-636.84	-575.64	465.01	438.06	25.40	
6400.00	6126.99	6260.73	6126.99	23.98	16.42	195.44	-636.84	-575.64	466.81	439.93	26.77	
6500.00	6226.99	6360.73	6226.99	23.97	16.51	195.37	-636.84	-575.64	466.87	439.93	28.14	
6600.00	6326.99	6460.73	6326.99	24.02	16.61	195.30	-636.84	-575.64	466.87	439.93	29.51	
6700.00	6426.99	6560.73	6426.99	24.07	16.70	195.23	-636.84	-575.64	466.87	439.93	30.88	
6800.00	6526.99	6660.73	6526.99	24.12	16.80	195.16	-636.84	-575.64	466.87	439.93	32.25	
6900.00	6626.99	6760.73	6626.99	24.17	16.89	195.09	-636.84	-575.64	466.87	439.93	33.62	
7000.00	6726.99	6860.73	6726.99	24.22	17.00	195.02	-636.84	-575.64	466.87	439.93	35.00	
7100.00	6826.99	6960.73	6826.99	24.27	17.10	194.95	-636.84	-575.64	466.87	439.93	36.37	
7200.00	6926.99	7060.73	6926.99	24.33	17.20	194.88	-636.84	-575.64	466.87	439.93	37.75	
7300.00	7026.99	7160.73	7026.99	24.39	17.31	194.81	-636.84	-575.64	466.87	439.93	39.12	
7400.00	7126.99	7260.73	7126.99	24.45	17.42	194.74	-636.84	-575.64	466.87	439.93	40.50	
7500.00	7226.99	7360.73	7226.99	24.51	17.53	194.67	-636.84	-575.64	466.87	439.93	41.87	
7600.00	7326.99	7460.73	7326.99	24.57	17.64	194.60	-636.84	-575.64	466.87	439.93	43.25	
7700.00	7426.99	7560.73	7426.99	24.63	17.75	194.53	-636.84	-575.64	466.87	439.93	44.62	
7800.00	7526.99	7660.73	7526.99	24.70	17.87	194.46	-636.84	-575.64	466.87	439.93	46.00	
7900.00	7626.99	7760.73	7626.99	24.77	17.98	194.39	-636.84	-575.64	466.87	439.93	47.37	
8000.00	7726.99	7860.73	7726.99	24.84	18.10	194.32	-636.84	-575.64	466.87	439.93	48.75	
8100.00	7826.99	7960.73	7826.99	24.91	18.22	194.25	-636.84	-575.64	466.87	439.93	50.12	
8200.00	7926.99	8060.73	7926.99	24.98	18.35	194.18	-636.84	-575.64	466.87	439.93	51.50	
8300.00	8026.99	8160.73	8026.99	25.05	18.47	194.11	-636.84	-575.64	466.87	439.93	52.87	
8400.00	8126.99	8260.73	8126.99	25.13	18.59	194.04	-636.84	-575.64	466.87	439.93	54.25	
8493.01	8220.00	8343.74	8210.00	25.20	18.70	193.97	-636.84	-575.64	466.98	425.43	11.24	

Weatherford Drilling Services

Anticollision Report



Weatherford

Company: Anadarko-Kerr-McGee **Date:** 7/12/2007 **Time:** 16:03:42 **Page:** 3
Field: UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)
Reference Site: NBU 1022-13M2CS **Co-ordinate(NE) Reference:** Site: NBU 1022-13M2CS, Grid North
Reference Well: 13M2CS **Vertical (TVD) Reference:** SITE 5302.0
Reference Wellpath: 1 **Db:** Sybase

Site: NBU 1022-13N1S
Well: 13N1S
Wellpath: 1 V0 Plan: Plan #2 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
MD ft	TVD ft	MD ft	TVD ft	Ref ft	Offset ft	TFO-HS deg	North ft	East ft				
0.00	0.00	0.00	0.00	0.00	0.00	41.61	14.30	12.70	19.13	18.95	107.43	No Data
100.00	100.00	100.00	100.00	0.09	0.09	41.61	14.30	12.70	19.13	18.53	32.04	
200.00	200.00	200.00	200.00	0.30	0.30	41.61	14.30	12.70	19.13	18.11	18.83	
300.00	300.00	300.00	300.00	0.51	0.51	41.61	14.30	12.70	19.13	17.69	13.33	
400.00	400.00	400.00	400.00	0.72	0.72	41.61	14.30	12.70	19.13	17.27	10.32	
500.00	500.00	500.00	500.00	0.93	0.93	41.61	14.30	12.70	19.13	16.85	8.42	
600.00	600.00	600.00	600.00	1.14	1.14	41.61	14.30	12.70	19.13	16.43	7.11	
700.00	700.00	700.00	700.00	1.35	1.35	41.61	14.30	12.70	19.13	16.02	6.15	
800.00	800.00	800.00	800.00	1.56	1.56	41.61	14.30	12.70	19.13	15.60	5.42	
900.00	900.00	900.00	900.00	1.76	1.76	41.61	14.30	12.70	19.13	15.18	4.84	
1000.00	1000.00	1000.00	1000.00	1.97	1.97	41.61	14.30	12.70	19.13	14.76	4.38	
1100.00	1100.00	1100.00	1100.00	2.18	2.18	41.61	14.30	12.70	19.13	14.34	4.00	
1200.00	1200.00	1200.00	1200.00	2.39	2.39	41.61	14.30	12.70	19.13	13.92	3.67	
1300.00	1300.00	1300.00	1300.00	2.60	2.60	41.61	14.30	12.70	19.13	13.50	3.40	
1400.00	1400.00	1400.00	1400.00	2.81	2.81	41.61	14.30	12.70	19.13	13.08	3.17	
1500.00	1500.00	1500.00	1500.00	3.02	3.02	41.61	14.30	12.70	19.13	12.66	2.96	
1600.00	1600.00	1600.00	1600.00	3.23	3.23	41.61	14.30	12.70	19.13	12.25	2.78	
1700.00	1700.00	1700.00	1700.00	3.44	3.44	41.61	14.30	12.70	19.13	11.83	2.62	
1800.00	1800.00	1800.00	1800.00	3.65	3.65	41.61	14.30	12.70	19.13	11.41	2.48	
1900.00	1900.00	1900.00	1900.00	3.86	3.86	41.61	14.30	12.70	19.13	10.99	2.35	
2000.00	2000.00	2000.00	2000.00	4.07	4.07	41.61	14.30	12.70	19.13	10.57	2.24	
2100.00	2100.00	2100.00	2100.00	4.28	4.28	41.61	14.30	12.70	19.13	10.11	2.13	
2200.00	2200.00	2200.04	2200.04	4.49	4.49	42.65	14.03	12.93	19.08	9.98	2.06	
2300.00	2300.00	2299.98	2299.98	4.70	4.70	183.97	11.06	15.48	19.37	9.98	2.06	
2400.00	2399.91	2399.30	2398.87	4.91	4.91	202.29	4.82	20.82	25.29	15.48	2.58	
2500.00	2499.56	2497.45	2496.23	5.12	5.13	214.87	-4.53	28.84	38.81	28.59	3.80	
2600.00	2598.75	2593.90	2591.32	5.35	5.37	221.33	-16.79	39.35	59.23	48.59	5.57	
2700.00	2697.30	2688.18	2683.52	5.59	5.63	224.67	-31.71	52.13	85.85	74.76	7.74	
2800.00	2795.02	2779.85	2772.32	5.86	5.91	226.56	-48.96	66.92	118.25	106.69	10.23	
2900.00	2891.71	2868.56	2857.33	6.18	6.24	227.78	-68.21	83.41	156.13	144.04	12.91	
3000.00	2987.21	2954.01	2938.22	6.55	6.59	228.71	-89.09	101.31	199.21	186.52	15.70	
3100.00	3081.32	3035.96	3014.79	6.98	6.98	229.50	-111.27	120.31	247.21	233.85	18.50	
3200.00	3173.87	3114.25	3086.91	7.48	7.40	230.28	-134.37	140.12	299.84	285.71	21.22	
3300.00	3264.67	3188.75	3154.55	8.07	7.84	231.09	-158.09	160.45	356.82	341.89	23.89	
3400.00	3353.57	3259.42	3217.74	8.74	8.32	231.98	-182.12	181.04	417.86	401.94	26.25	
3500.00	3440.56	3326.37	3276.67	9.50	8.80	232.30	-206.23	201.71	482.51	465.54	28.44	
3600.00	3527.16	3395.99	3337.08	10.30	9.35	231.86	-232.50	224.22	548.89	530.81	30.36	
3700.00	3613.76	3470.54	3401.64	11.13	9.96	231.50	-260.80	248.48	615.49	596.15	31.82	
3800.00	3700.36	3545.09	3466.21	11.99	10.59	231.22	-289.11	272.73	682.10	661.46	33.06	
3900.00	3786.97	3619.64	3530.77	12.87	11.24	230.99	-317.41	296.99	748.71	726.76	34.11	
4000.00	3873.57	3694.19	3595.33	13.76	11.89	230.79	-345.71	321.25	815.33	792.12	35.12	
4100.00	3960.17	3768.74	3659.89	14.66	12.56	230.63	-374.02	345.50	881.96	857.38	35.88	
4200.00	4046.77	3843.29	3724.46	15.58	13.24	230.48	-402.32	369.76	948.58	922.63	36.55	
4300.00	4133.38	3923.74	3794.20	16.50	13.86	230.34	-432.77	395.86	1015.14	987.84	37.19	
4400.00	4219.98	4016.41	3875.40	17.43	14.35	230.11	-466.68	424.92	1080.72	1052.23	37.93	
4500.00	4306.98	4112.07	3960.32	18.21	14.86	229.11	-500.11	453.57	1144.65	1115.17	38.84	
4600.00	4395.22	4211.70	4049.91	18.74	15.40	228.03	-533.20	481.92	1205.93	1175.72	39.92	
4700.00	4484.65	4315.33	4144.28	19.27	15.94	227.08	-565.72	509.80	1264.38	1233.44	40.87	
4800.00	4575.23	4422.95	4243.46	19.79	16.48	226.22	-597.42	536.96	1319.84	1288.19	41.70	
4900.00	4666.89	4534.48	4347.45	20.29	17.01	225.45	-628.02	563.19	1372.16	1339.83	42.44	
5000.00	4759.56	4649.85	4456.21	20.76	17.53	224.75	-657.23	588.23	1421.19	1388.21	43.10	

Weatherford Drilling Services

Anticollision Report



Weatherford

Company: Anadarko-Kerr-McGee **Date:** 7/12/2007 **Time:** 16:03:42 **Page:** 4
Field: UTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)
Reference Site: NBU 1022-13M2CS **Co-ordinate(NE) Reference:** Site: NBU 1022-13M2CS, Grid North
Reference Well: 13M2CS **Vertical (TVD) Reference:** SITE 5302.0
Reference Wellpath: 1 **Db:** Sybase

Site: NBU 1022-13N1S
Well: 13N1S
Wellpath: 1 V0 Plan: Plan #2 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
MD ft	TVD ft	MD ft	TVD ft	Ref ft	Offset ft	TFO-HS deg	North ft	East ft				
5100.00	4853.18	4768.91	4569.61	21.22	18.02	224.10	-684.75	611.82	1466.77	1433.20	43.68	
5200.00	4947.69	4891.49	4687.50	21.64	18.48	223.50	-710.27	633.69	1508.77	1474.65	44.21	
5300.00	5043.02	5017.39	4809.62	22.03	18.90	222.94	-733.47	653.57	1547.05	1512.43	44.68	
5400.00	5139.11	5146.33	4935.67	22.40	19.26	222.41	-754.06	671.21	1581.48	1546.45	45.14	
5500.00	5235.89	5278.02	5065.28	22.72	19.56	221.90	-771.73	686.36	1611.95	1576.58	45.57	
5600.00	5333.30	5412.12	5198.00	23.02	19.81	221.42	-786.24	698.79	1638.35	1602.72	45.98	
5700.00	5431.27	5548.23	5333.33	23.27	19.97	220.94	-797.33	708.30	1660.60	1624.80	46.39	
5800.00	5529.72	5685.96	5470.69	23.49	20.07	220.47	-804.82	714.72	1678.62	1642.74	46.78	
5900.00	5628.60	5824.84	5609.48	23.67	20.09	220.01	-808.56	717.93	1692.36	1656.49	47.18	
6000.00	5727.84	5943.21	5727.84	23.81	20.10	219.61	-809.00	718.30	1702.11	1662.30	42.75	
6100.00	5827.36	6042.73	5827.36	23.91	20.14	219.33	-809.00	718.30	1709.62	1669.81	42.95	
6200.00	5927.11	6142.48	5927.11	23.98	20.18	219.13	-809.00	718.30	1715.12	1675.33	43.11	
6300.00	6027.01	6242.37	6027.01	24.00	20.23	219.00	-809.00	718.30	1718.60	1678.85	43.23	
6400.00	6126.99	6342.35	6126.99	23.98	20.28	218.95	-809.00	718.30	1720.06	1680.33	43.30	
6500.00	6226.99	6442.35	6226.99	23.97	20.33	89.38	-809.00	718.30	1720.10	1673.19	36.67	
6600.00	6326.99	6542.35	6326.99	24.02	20.38	89.38	-809.00	718.30	1720.10	1673.09	36.59	
6700.00	6426.99	6642.35	6426.99	24.07	20.43	89.38	-809.00	718.30	1720.10	1672.99	36.51	
6800.00	6526.99	6742.35	6526.99	24.12	20.49	89.38	-809.00	718.30	1720.10	1672.89	36.43	
6900.00	6626.99	6842.35	6626.99	24.17	20.55	89.38	-809.00	718.30	1720.10	1672.78	36.35	
7000.00	6726.99	6942.35	6726.99	24.22	20.61	89.38	-809.00	718.30	1720.10	1672.66	36.26	
7100.00	6826.99	7042.35	6826.99	24.27	20.67	89.38	-809.00	718.30	1720.10	1672.55	36.17	
7200.00	6926.99	7142.35	6926.99	24.33	20.74	89.38	-809.00	718.30	1720.10	1672.43	36.08	
7300.00	7026.99	7242.35	7026.99	24.39	20.80	89.38	-809.00	718.30	1720.10	1672.30	35.99	
7400.00	7126.99	7342.35	7126.99	24.45	20.87	89.38	-809.00	718.30	1720.10	1672.18	35.89	
7500.00	7226.99	7442.35	7226.99	24.51	20.94	89.38	-809.00	718.30	1720.10	1672.05	35.79	
7600.00	7326.99	7542.35	7326.99	24.57	21.01	89.38	-809.00	718.30	1720.10	1671.91	35.69	
7700.00	7426.99	7642.35	7426.99	24.63	21.09	89.38	-809.00	718.30	1720.10	1671.77	35.59	
7800.00	7526.99	7742.35	7526.99	24.70	21.16	89.38	-809.00	718.30	1720.10	1671.63	35.49	
7900.00	7626.99	7842.35	7626.99	24.77	21.24	89.38	-809.00	718.30	1720.10	1671.49	35.38	
8000.00	7726.99	7942.35	7726.99	24.84	21.32	89.38	-809.00	718.30	1720.10	1671.34	35.28	
8100.00	7826.99	8042.35	7826.99	24.91	21.40	89.38	-809.00	718.30	1720.10	1671.19	35.17	
8200.00	7926.99	8142.35	7926.99	24.98	21.48	89.38	-809.00	718.30	1720.10	1671.03	35.06	
8300.00	8026.99	8242.35	8026.99	25.05	21.57	89.38	-809.00	718.30	1720.10	1670.88	34.94	
8400.00	8126.99	8342.35	8126.99	25.13	21.65	89.38	-809.00	718.30	1720.10	1670.72	34.83	
8493.01	8220.00	8375.37	8160.00	25.20	21.68	89.38	-809.00	718.30	1721.15	1671.66	34.78	

Kerr-McGee Oil & Gas Onshore LP

NBU #1022-13K-3T, #1022-13O4S, #1022-13O1CS, #1022-13O2S,
#1022-13D4S, #1022-13I3S, #1022-13O1AS, #1022-13J4S, #1022-
13I4S, #1022-13L4S, #1022-13L3S, #1022-13K3S, #1022-13M2AS,
#1022-13N2S, #1022-13N1S, #1022-13M2CS & #1022-13M1S
SECTION 13, T10S, R22E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.3 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 12.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 1.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 1.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 3.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN SOUTHWESTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 5.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 1.9 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 58.7 MILES.

Kerr-McGee Oil & Gas Onshore LP

NBU #1022-13K-3T, #1022-13O4S, #1022-13O1CS, #1022-13O2S,
#1022-13K4S, #1022-13I3S, #1022-13O1AS, #1022-13J4S,
#1022-13I4S, #1022-13L4S, #1022-13L3S, #1022-13K3S,
#1022-13M2AS, #1022-13N2S, #1022-13N1S, #1022-13M2CS
& #1022-13M1S

LOCATED IN UINTAH COUNTY, UTAH
SECTION 13, T10S, R22E, S.L.B.&M.

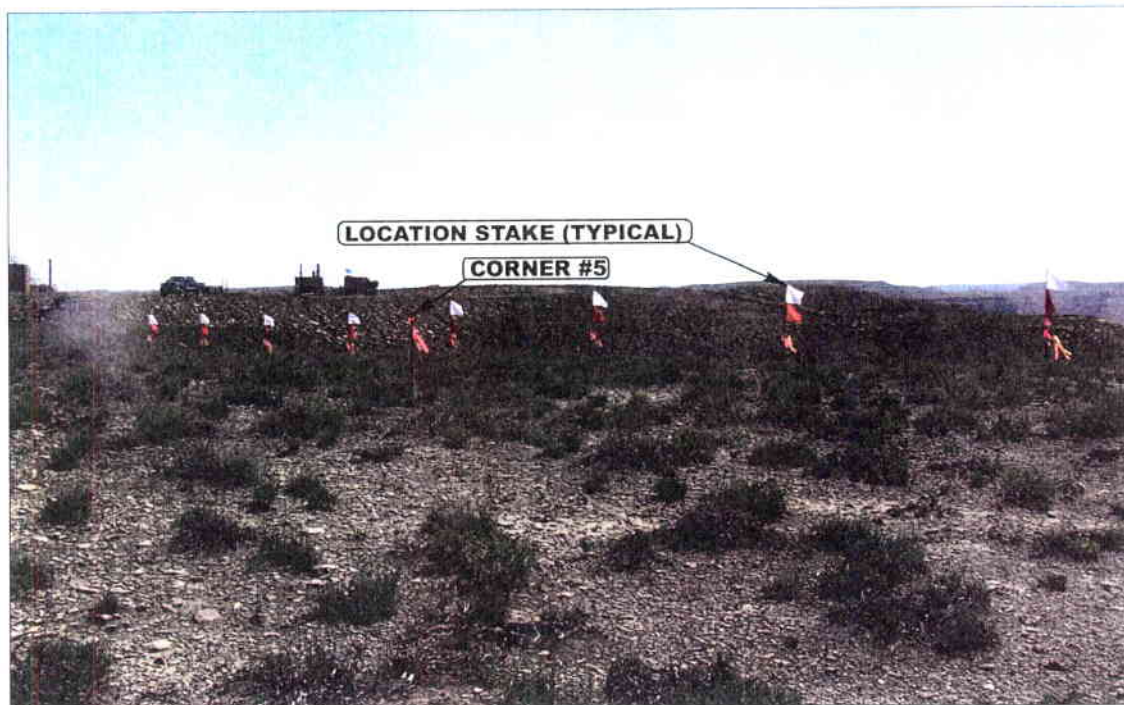


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES

CAMERA ANGLE: SOUTHERLY



PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: WESTERLY



- Since 1964 -

E&L

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

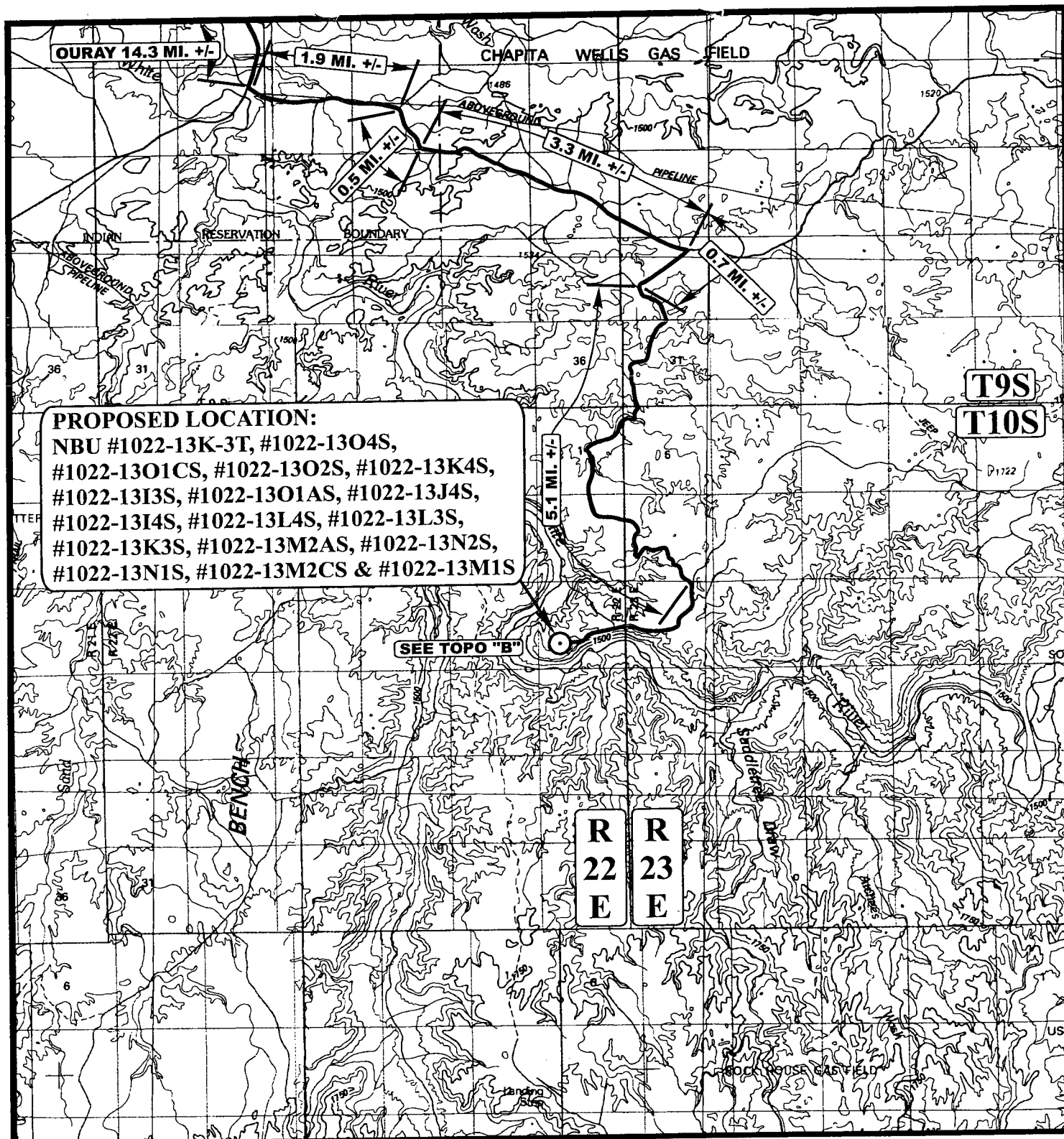
05 17 07
MONTH DAY YEAR

PHOTO

TAKEN BY: L.K.

DRAWN BY: C.P.

REVISED: 00-00-00



PROPOSED LOCATION:

NBU #1022-13K-3T, #1022-13O4S,
 #1022-13O1CS, #1022-13O2S, #1022-13K4S,
 #1022-13I3S, #1022-13O1AS, #1022-13J4S,
 #1022-13I4S, #1022-13L4S, #1022-13L3S,
 #1022-13K3S, #1022-13M2AS, #1022-13N2S,
 #1022-13N1S, #1022-13M2CS & #1022-13M1S

SEE TOPO "B"

LEGEND:

○ PROPOSED LOCATION

N



Kerr-McGee Oil & Gas Onshore LP

NBU#1022-13K-3T, #1022-13O4S, #1022-13O1CS, #1022-13O2S,
 #1022-13K4S, #1022-13I3S, #1022-13O1AS, #1022-13J4S,
 #1022-13I4S, #1022-13L4S, #1022-13L3S, #1022-13K3S,
 #1022-13M2AS, #1022-13N2S, #1022-13N1S, #1022-13M2CS
 & #1022-13M1S

SECTION 13, T10S, R22E, S.L.B.&M.; SW 1/4



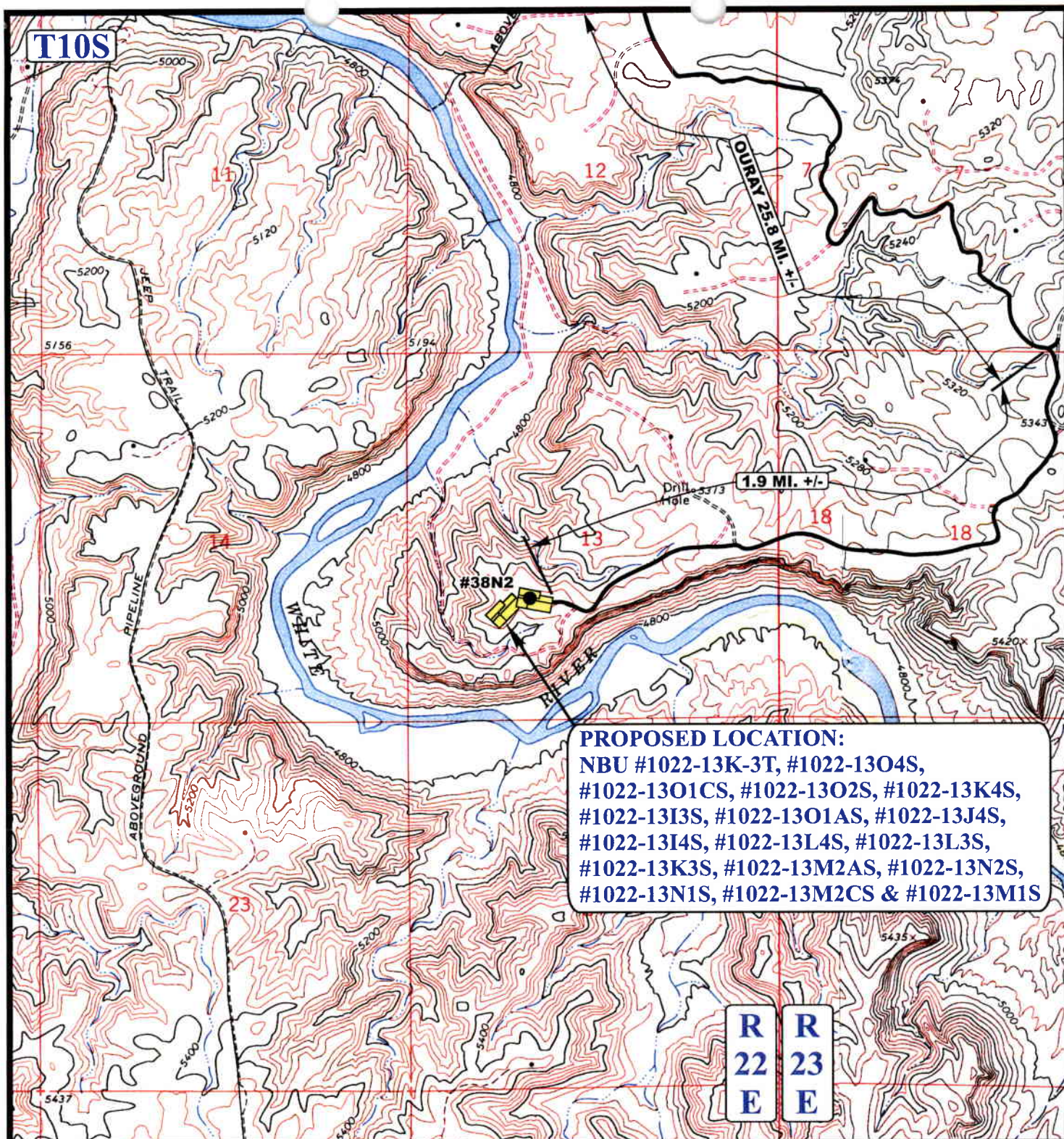
Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
MAP

05 17 07
 MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: C.P. REVISED: 00-00-00

A
TOPO



LEGEND:

- EXISTING ROAD
 PROPOSED ACCESS ROAD

**Kerr-McGee Oil & Gas Onshore LP**

**NBU#1022-13K-3T, #1022-13O4S, #1022-13O1CS, #1022-13O2S,
#1022-13K4S, #1022-13I3S, #1022-13O1AS, #1022-13J4S,
#1022-13I4S, #1022-13L4S, #1022-13L3S, #1022-13K3S,
#1022-13M2AS, #1022-13N2S, #1022-13N1S, #1022-13M2CS
& #1022-13M1S**

SECTION 13, T10S, R22E, S.L.B.&M.; SW 1/4



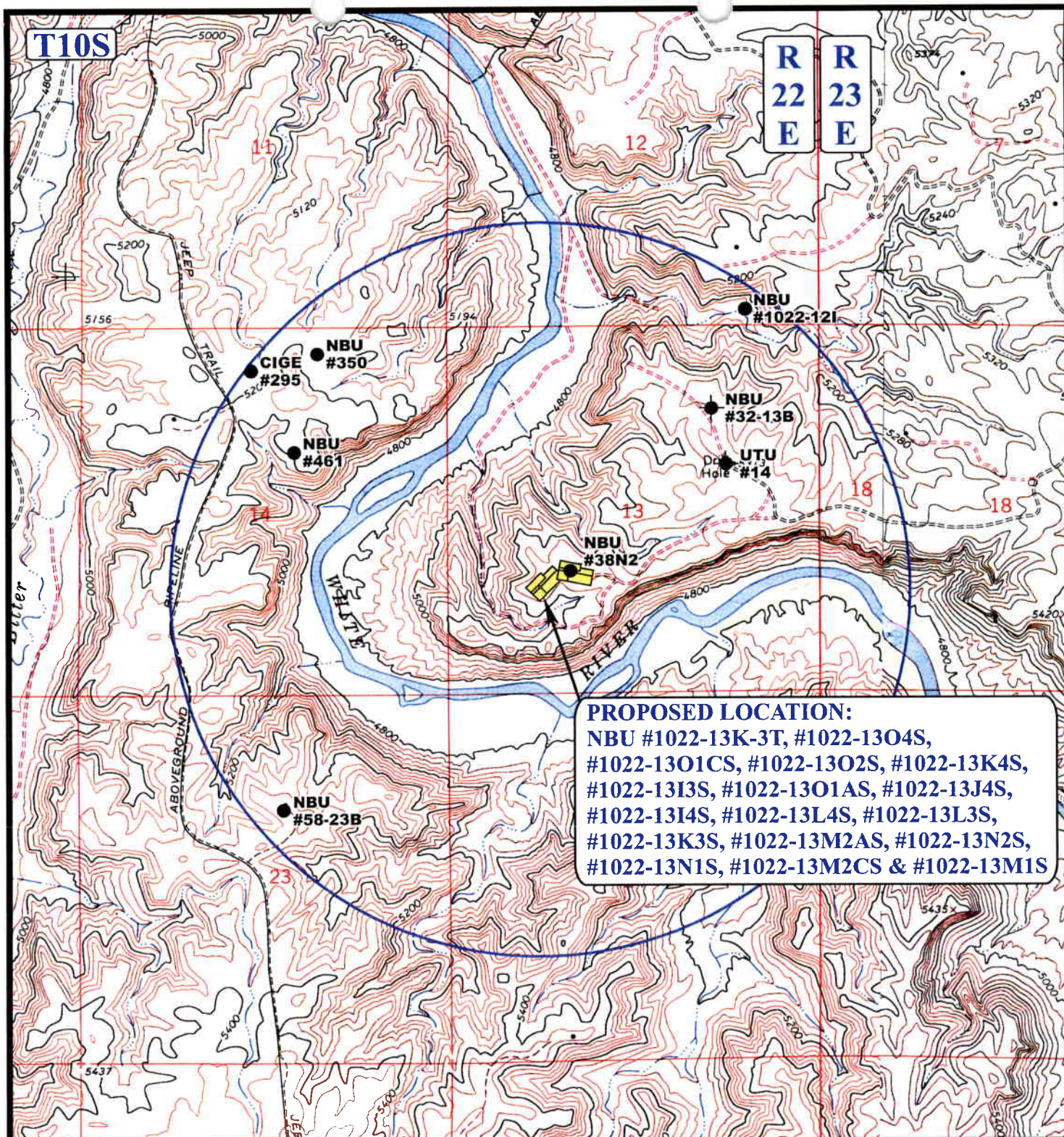
Utah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP

05	17	07
MONTH	DAY	YEAR

B
TOPO

SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 00-00-00



LEGEND:

- | | |
|-------------------|-------------------------|
| Ø DISPOSAL WELLS | Ø WATER WELLS |
| ● PRODUCING WELLS | ● ABANDONED WELLS |
| ● SHUT IN WELLS | ● TEMPORARILY ABANDONED |



Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

Kerr-McGee Oil & Gas Onshore LP

NBU#1022-13K-3T, #1022-13O4S, #1022-13O1CS, #1022-13O2S,
 #1022-13K4S, #1022-13I3S, #1022-13O1AS, #1022-13J4S,
 #1022-13I4S, #1022-13L4S, #1022-13L3S, #1022-13K3S,
 #1022-13M2AS, #1022-13N2S, #1022-13N1S, #1022-13M2CS
 & #1022-13M1S

SECTION 13, T10S, R22E, S.L.B.&M.; SW 1/4

**TOPOGRAPHIC
MAP**

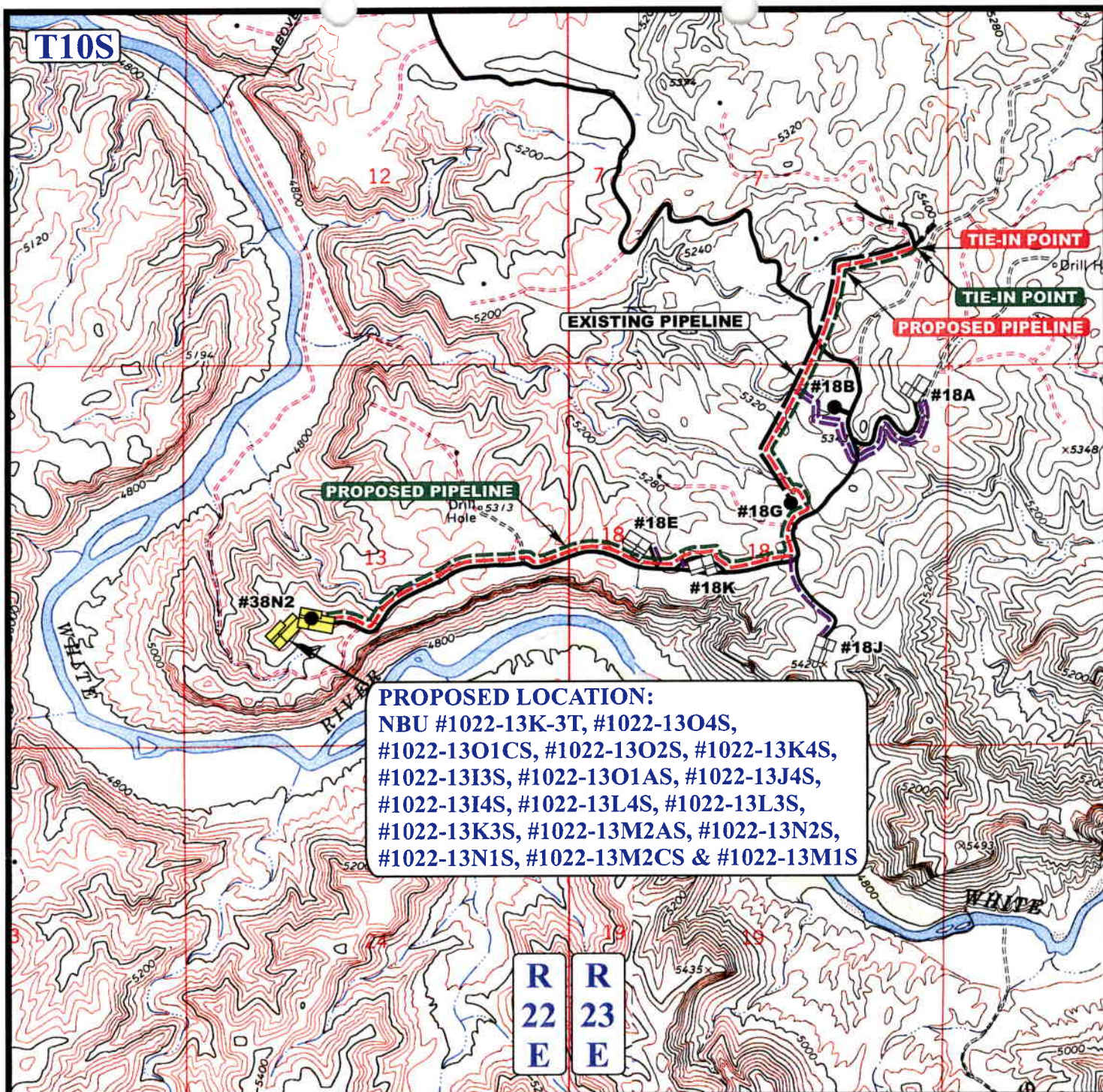
05 17 07
 MONTH DAY YEAR

SCALE: 1" = 2000'

DRAWN BY: C.P.

REVISED: 00-00-00





APPROXIMATE TOTAL 10" PIPELINE DISTANCE = 12,184' +/-

APPROXIMATE TOTAL 6" PIPELINE DISTANCE = 12,184' +/-

LEGEND:

	EXISTING ROAD
	EXISTING PIPELINE
	PROPOSED PIPELINE
	PROPOSED PIPELINE
	PROPOSED PIPELINE (SERVICING OTHER WELLS)



Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

Kerr-McGee Oil & Gas Onshore LP

NBU#1022-13K-3T, #1022-13O4S, #1022-13O1CS, #1022-13O2S,
 #1022-13K4S, #1022-13I3S, #1022-13O1AS, #1022-13J4S,
 #1022-13I4S, #1022-13L4S, #1022-13L3S, #1022-13K3S,
 #1022-13M2AS, #1022-13N2S, #1022-13N1S, #1022-13M2CS
 & #1022-13M1S

SECTION 13, T10S, R22E, S.L.B.&M.; SW 1/4

TOPOGRAPHIC
 MAP

05 17 07
 MONTH DAY YEAR

SCALE: 1" = 2000'

DRAWN BY: C.P.

REVISED: 07-19-07



Kerr-McGee Oil & Gas Onshore LP

NBU #1022-13K-3T, #1022-13O4S, #1022-13O1CS, #1022-13O2S,
#1022-13K4S, #1022-13I3S, #1022-13O1AS, #1022-13J4S,
#1022-13I4S, #1022-13L4S, #1022-13L3S, #1022-13K3S,
#1022-13M2AS, #1022-13N2S, #1022-13N1S, #1022-13M2CS
& #1022-13M1S

PIPELINE ALIGNMENT
LOCATED IN UINTAH COUNTY, UTAH
SECTION 13, T10S, R22E, S.L.B.&M.



PHOTO: VIEW FROM TIE-IN POINT

CAMERA ANGLE: WESTERLY



PHOTO: VIEW OF PIPELINE ALIGNMENT

CAMERA ANGLE: WESTERLY



- Since 1964 -

UELS

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

PIPELINE PHOTOS

05 17 07
MONTH DAY YEAR

PHOTO

TAKEN BY: L.K.

DRAWN BY: C.P.

REVISED: 00-00-00

INTERFERENCE DETAIL FOR

NBU #1022-13K-3T, #1022-1304S,
#1022-1301CS, #1022-1302S, #1022-13K4S,
#1022-13I3S, #1022-1301AS, #1022-13J4S,
#1022-13I4S, #1022-13L4S, #1022-13L3S,
#1022-13K3S, #1022-13M2AS, #1022-13N2S,
#1022-13N1S, #1022-13M2CS & #1022-13M1S
SECTION 13, T10S, R22E, S.L.B.&M.
SW 1/4



SCALE: 1" = 50'
DATE: 6-13-07
Drawn By: K.G.

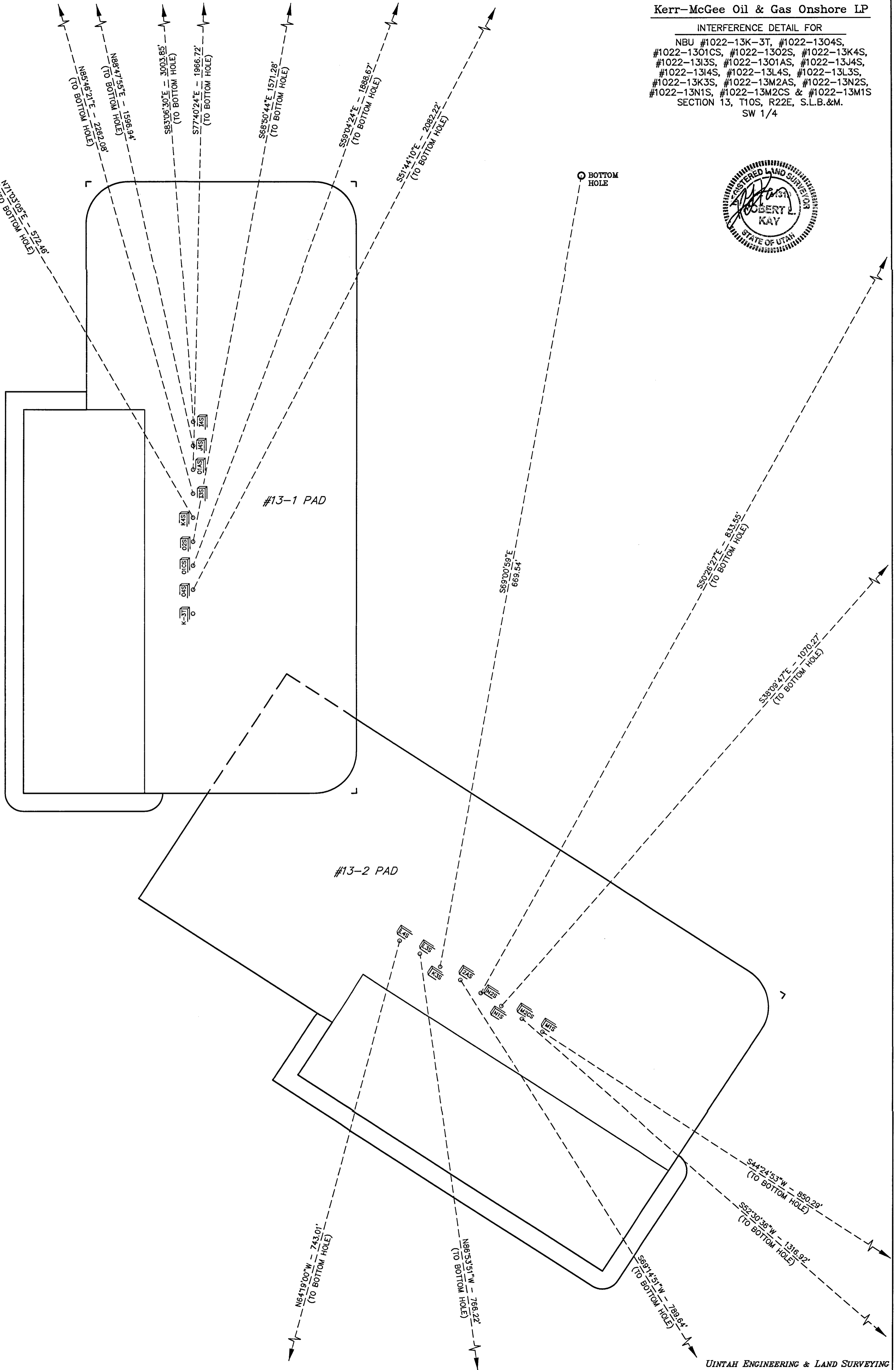
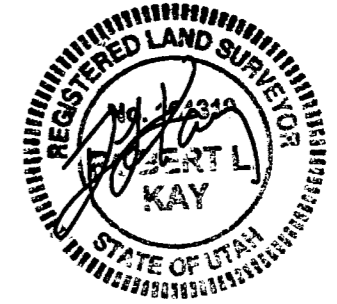


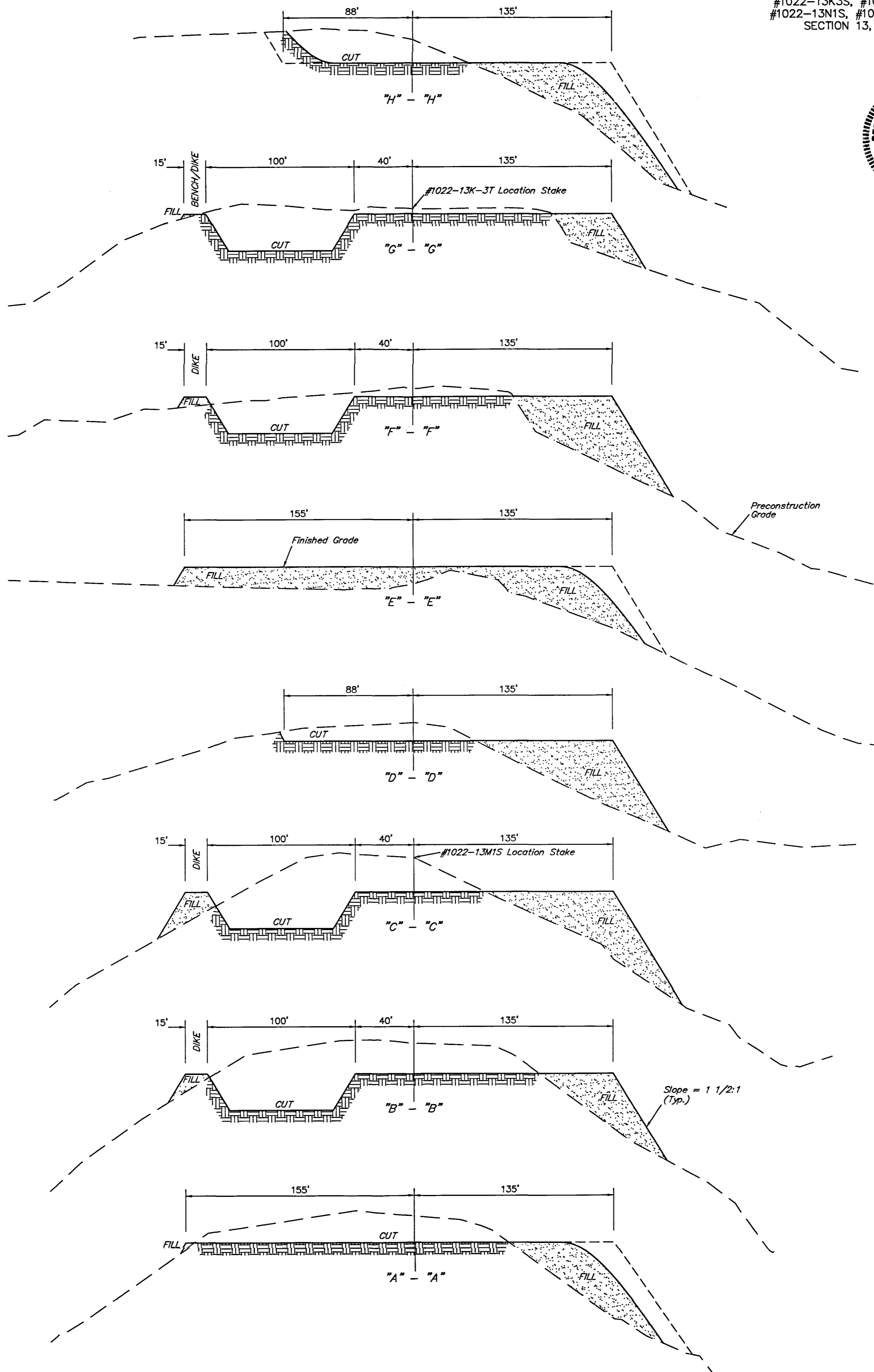
FIGURE #2

TYPICAL CROSS SECTIONS FOR

NBU #1022-13K-3T, #1022-1304S,
#1022-1301CS, #1022-1302S, #1022-13K4S,
#1022-1313S, #1022-1301AS, #1022-13J4S,
#1022-1314S, #1022-13L4S, #1022-13L3S,
#1022-13K3S, #1022-13M2AS, #1022-13N2S,
#1022-13N1S, #1022-13M2CS & #1022-13M1S
SECTION 13, T10S, R22E, S.L.B.&M.
SW 1/4



1" = 20'
X-Section
Scale
1" = 50'
DATE: 6-13-07
Drawn By: K.G.



NOTE:

Topsail should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE YARDAGES FOR #13-1 PAD

CUT	
(6") Topsoil Stripping	= 3,160 Cu. Yds.
Remaining Location	= 18,230 Cu. Yds.
TOTAL CUT	= 21,390 CU.YDS.
FILL	= 13,580 CU.YDS.
EXCESS MATERIAL	= 7,810 Cu. Yds.
Topsail & Pit Backfill (1/2 Pit Vol.)	= 7,810 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.

APPROXIMATE YARDAGES FOR #13-2 PAD

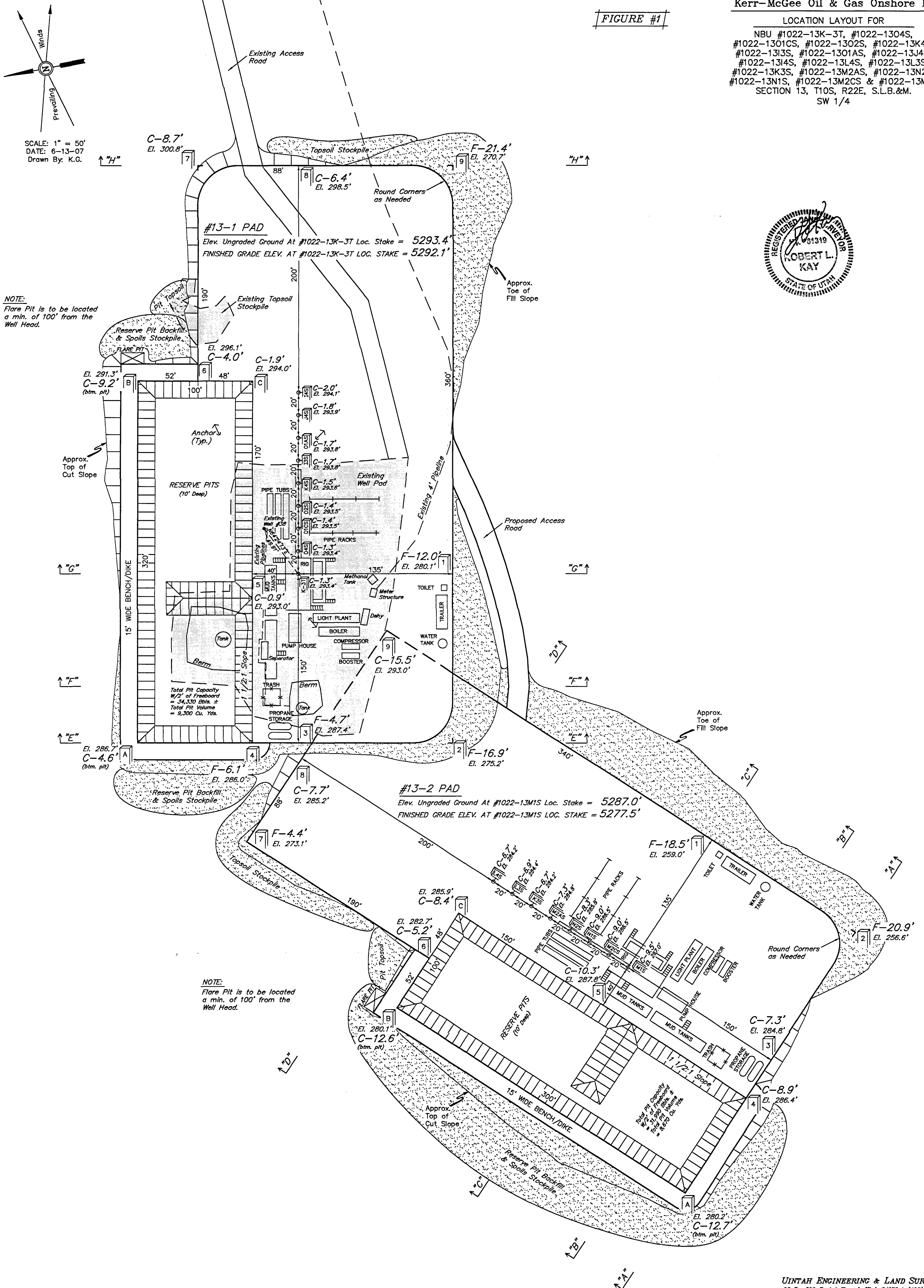
CUT	
(6") Topsoil Stripping	= 2,860 Cu. Yds.
Remaining Location	= 24,050 Cu. Yds.
TOTAL CUT	= 26,910 CU.YDS.
FILL	= 19,710 CU.YDS.
EXCESS MATERIAL	= 7,200 Cu. Yds.
Topsail & Pit Backfill (1/2 Pit Vol.)	= 7,200 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.

* NOTE:
FILL QUANTITY INCLUDES
5% FOR COMPACTION

LOCATION LAYOUT FOR

NBU #1022-13K-3T, #1022-1304S,
 #1022-1301CS, #1022-1302S, #1022-13K4S,
 #1022-13I3S, #1022-1301AS, #1022-13J4S,
 #1022-13I4S, #1022-13L4S, #1022-13L3S,
 #1022-13K3S, #1022-13M2AS, #1022-13N2S,
 #1022-13N1S, #1022-13M2CS & #1022-13M1S
 SECTION 13, T10S, R22E, S.L.B.&M.
 SW 1/4

FIGURE #1



WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 08/06/2007

API NO. ASSIGNED: 43-047-39488

WELL NAME: NBU 1022-13M2CS

OPERATOR: KERR-MCGEE OIL & GAS (N2995)

CONTACT: SHEILA UPCHEGO

PHONE NUMBER: 435-781-7024

PROPOSED LOCATION:

NWSW 13 100S 220E

SURFACE: 1552 FSL 1289 FWL

BOTTOM: 0750 FSL 0270 FWL

COUNTY: UINTAH

LATITUDE: 39.94592 LONGITUDE: -109.3924

UTM SURF EASTINGS: 637337 NORTHINGS: 4422783

FIELD NAME: NATURAL BUTTES (630)

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering	Duo	9/7/07
Geology		
Surface		

LEASE TYPE: 3 - State

LEASE NUMBER: STUO-08512-ST

SURFACE OWNER: 3 - State

PROPOSED FORMATION: WSMVD

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat
☒ Bond: Fed[] Ind[] Sta[] Fee[]
(No. 22013542)
☒ Potash (Y/N)
☒ Oil Shale 190-5 (B) or 190-3 or 190-13
☒ Water Permit
(No. 43-8496)
☒ RDCC Review (Y/N)
(Date:)
☒ Fee Surf Agreement (Y/N)
☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

___ R649-2-3.
Unit: NATURAL BUTTES
___ R649-3-2. General
Siting: 460' From Qtr/Qtr & 920' Between Wells
___ R649-3-3. Exception
☒ Drilling Unit
Board Cause No: 173-14
Eff Date: 12-2-99
Siting: 460' fr u b d r g. & u n c m m. Tract
☒ R649-3-11. Directional Drill

COMMENTS: Needs Permit (06-27-07)

STIPULATIONS: 1- STATEMENT OF BASIS

2- OIL SHALE

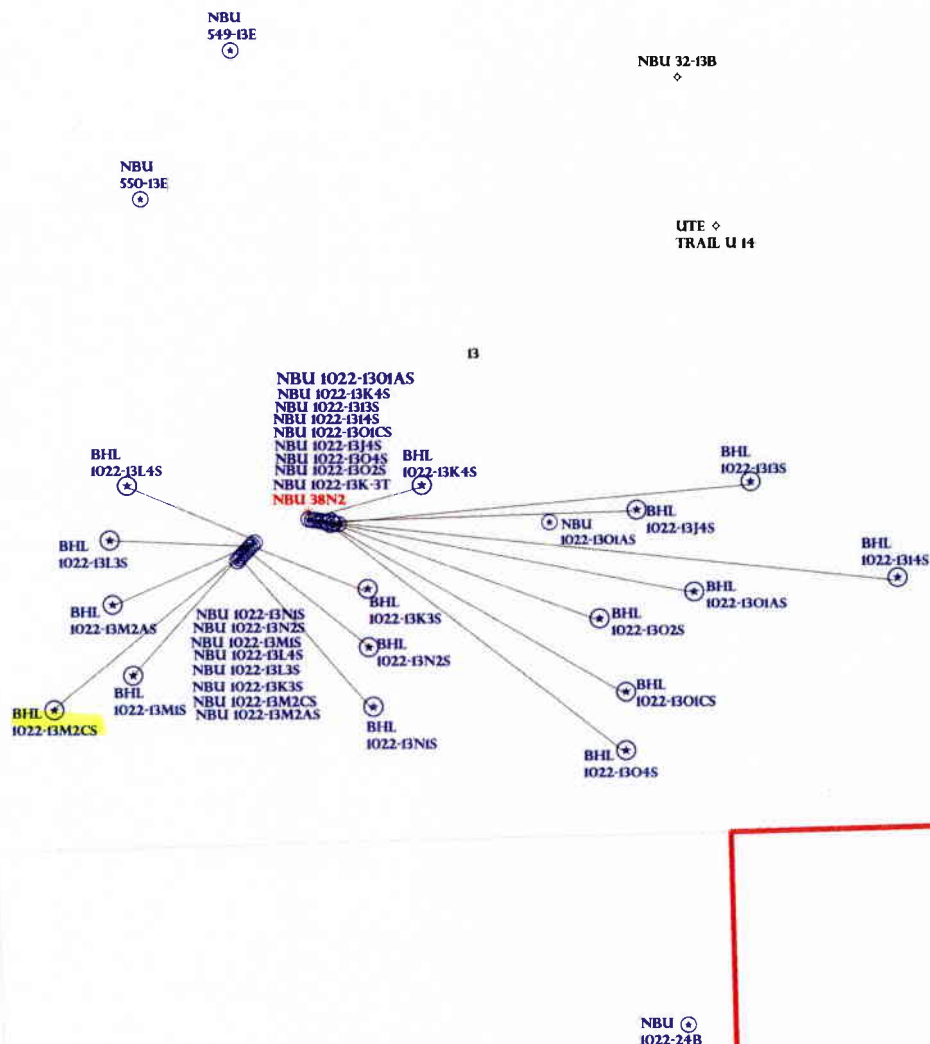
3- Surface Csg Cont Stip.

T10S R22E

T10S R23E

NATURAL BUTTES FIELD **NATURAL BUTTES UNIT**

CAUSE: 173-14 / 12-2-1999



OPERATOR: KERR MCGEE O&G (N2995)

SEC: 13 T.10S R. 22E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

CAUSE: 173-14 / 12-2-1999

Field Status

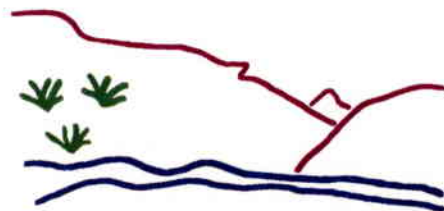
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

Unit Status

- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Wells Status

- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING



Utah Oil Gas and Mining



PREPARED BY: DIANA MASON
 DATE: 8-AUGUST-2007

Application for Permit to Drill

Statement of Basis

8/21/2007

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
495	43-047-39488-00-00		GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, LP	Surface Owner-APD			
Well Name	NBU 1022-13M2CS	Unit			
Field	UNDESIGNATED	Type of Work			
Location	NWSW 13 10S 22E S 1552 FSL 1289 FWL GPS Coord (UTM) 637337E 4422783N				

Geologic Statement of Basis

Kerr McGee proposes to set 2,100' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 4,300'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 13. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought up above the base of the moderately saline ground water to isolate it from fresher waters uphole.

Brad Hill
APD Evaluator

8/21/2007
Date / Time

Surface Statement of Basis

The general area is in the southeast end of the Natural Buttes Unit, which contains the White River and short rugged drainages that drain into the White River. Topography is varied and frequently dissected by short draws or washes, which become overly steep as they approach the White River breaks or rim. Distance to the White River varies from ¼ mile to 2 miles. The side drainages are dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. Vernal, Utah is approximately 43 air miles to the northwest. Access from Ouray, Utah is approximately 27.7 road miles following Utah State, Uintah County and oilfield development roads to the location.

Seventeen new gas wells are proposed on two connected pads. The pads form a dogleg with the upper pad (#13-1) extending in an east-west direction and the lower pad (#13-2) in a northeast to southwest direction. Corners of the pads overlap with fill from the upper pad, corner 2, extending onto the lower pad at corner 9. Finished elevation of the upper pad is 15 feet higher than the lower pad. A road is proposed on the inside of the dog-leg ramping down to the lower pad. The pads are located on top of a medium width to narrow ridge-top elevated about 500 vertical feet above the White River. The White River forms a bend in the area and somewhat surrounds the locations except on the east-northeast sides. Closest horizontal distance to any well is approximately 1550 feet. Slopes from the ridge steepen and become near vertical sandstone ledges short distances from the pads. Soils are shallow with a rocky subsurface. Except for reserve pit construction blasting is not expected to be required. Pad construction will primarily consist of excavating the top of the ridge filling on the sides of the ridge. All fills will catch on existing natural side slopes. No drainage concerns exist. Elongated reserve pits are planned. Pits will be in cut except along corner 'C' on the lower #13-2 pad and corner 'F' on the upper #13-1 pad. Both areas will be reinforced with embankments which include a 15' wide bench and spoils storage. Reserve pits will be lined with double 20 mil. liners and a appropriate thickness of sub-felt to cushion all rocks. A pad for a producing gas well (NBU #38-N2) exist on a portion of the upper pad. Area encompassed for the pads not including spoils storage is approximately 6.7 acres.

Both the surface and minerals for this location are owned by SITLA. Jim Davis of SITLA attended the pre-site visit and expressed no concerns regarding the proposed location except for those discussed above.

The location appears to be the only site for constructing pads and drilling and operating multiple wells in the

Application for Permit to Drill

Statement of Basis

Utah Division of Oil, Gas and Mining

8/21/2007

Page 2

area.

It was mutually agreed that the most significant environmental concern with drilling and operating wells in this area was to avoid any leaks or spills from the operations reaching the White River. To reduce chances of this happening, Carroll Estes of Kerr McGee committed to line the pit with a double 20 mil liner with an appropriate thickness of felt sub-liner dependent upon the roughness of the surface of the constructed pit. He also stated they would formulate and follow a plan to monitor the level of fluids in the reserve pit as well as observing the surrounding terrain for any possible leaks. Corrugated metal containments will be constructed around all tanks used for production.

Floyd Bartlett
Onsite Evaluator

6/27/2007
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A double synthetic liner each with a minimum thickness of 20 mils and an appropriate thickness of felt sub-liner to cushion the liners shall be properly installed and maintained in the reserve pit.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, LP
Well Name NBU 1022-13M2CS
API Number 43-047-39488-0 **APD No** 495 **Field/Unit** UNDESIGNATED
Location: 1/4,1/4 NWSW **Sec** 13 **Tw** 10S **Rng** 22E 1552 FSL 1289 FWL
GPS Coord (UTM) **Surface Owner**

Participants

Floyd Bartlett (DOGM), Jim Davis (SITLA), Carroll Estes, Tony Kznick, and Clay Einerson (Kerr McGee), David Kay (Uintah Engineering and Land Surveying), and Daniel Emmett (UDWR)

Regional/Local Setting & Topography

The general area is in the southeast end of the Natural Buttes Unit, which contains the White River and short rugged drainages that drain into the White River. Topography is varied and frequently dissected by short draws or washes, which become overly steep as they approach the White River breaks or rim. Distance to the White River varies from ¼ mile to 2 miles. The side drainages are dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. Vernal, Utah is approximately 43 air miles to the northwest. Access from Ouray, Utah is approximately 27.7 road miles following Utah State, Uintah County and oilfield development roads to the location.

Seventeen new gas wells are proposed on two connected pads. The pads form a dogleg with the upper pad (#13-1) extending in an east-west direction and the lower pad (#13-2) in a northeast to southwest direction. Corners of the pads overlap with fill from the upper pad, corner 2, extending onto the lower pad at corner 9. Finished elevation of the upper pad is 15 feet higher than the lower pad. A road is proposed on the inside of the dog-leg ramping down to the lower pad. The pads are located on top of a medium width to narrow ridge-top elevated about 500 vertical feet above the White River. The White River forms a bend in the area and somewhat surrounds the locations except on the east-northeast sides. Closest horizontal distance to any well is approximately 1550 feet. Slopes from the ridge steepen and become near vertical sandstone ledges short distances from the pads. Soils are shallow with a rocky subsurface. Except for reserve pit construction blasting is not expected to be required. Pad construction will primarily consist of excavating the top of the ridge filling on the sides of the ridge. All fills will catch on existing natural side slopes. No drainage concerns exist. Elongated reserve pits are planned. Pits will be in cut except along corner 'C' on the lower #13-2 pad and corner 'F' on the upper #13-1 pad. Both areas will be reinforced with embankments which include a 15' wide bench and spoils storage. Reserve pits will be lined with double 20 mil. liners and a appropriate thickness of sub-felt to cushion all rocks. A pad for a producing gas well (NBU #38-N2) exist on a portion of the upper pad. Area encompassed for the pads not including spoils storage is approximately 6.7 acres.

Both the surface and minerals for this location are owned by SITLA.

Surface Use Plan

Current Surface Use

Grazing
Recreational
Wildlife Habitat

New Road

Miles	Well Pad	Src Const Material	Surface Formation
0.01	Width 290 Length 490	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetland N

Flora / Fauna

Moderately vegetated with black sagebrush, halogeton, shadscale, rabbit brush, broom snakeweed, cheatgrass, six-week fescue and spring annuals.

Antelope, coyote, small mammals and birds. Winter domestic sheep grazing

Soil Type and Characteristics

Shallow gravely sandy loam.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required N

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y Paleo Potential Observed? N Cultural Survey Run? Y Cultural Resources?

Reserve Pit

Site-Specific Factors

Site Ranking

Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	<300	20
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	<10	0
Affected Populations	<10	0
Presence Nearby Utility Conduits	Not Present	0

Final Score 35 1 Sensitivity Level

Characteristics / Requirements

The reserve pit is proposed on the southwest corner of the lower pad. Portions of the outer edge will be within partial fill. A 15' wide bench/dike is planned along the outer edge as well as reserve pit spoils storage along the west end. Finished pit dimensions are 100' x 300' x 10' deep. Carroll Estes of Kerr McGee committed to line the pit with a double 20 mil liner with an appropriate thickness of felt sub-liner dependent upon the roughness of the surface of the constructed pit.

Mr. Estes also stated they would formulate and follow a plan to monitor the level of fluids in the reserve pit as well as observing the surrounding terrain for any possible leaks.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 40 Pit Underlayment Required? Y

Other Observations / Comments

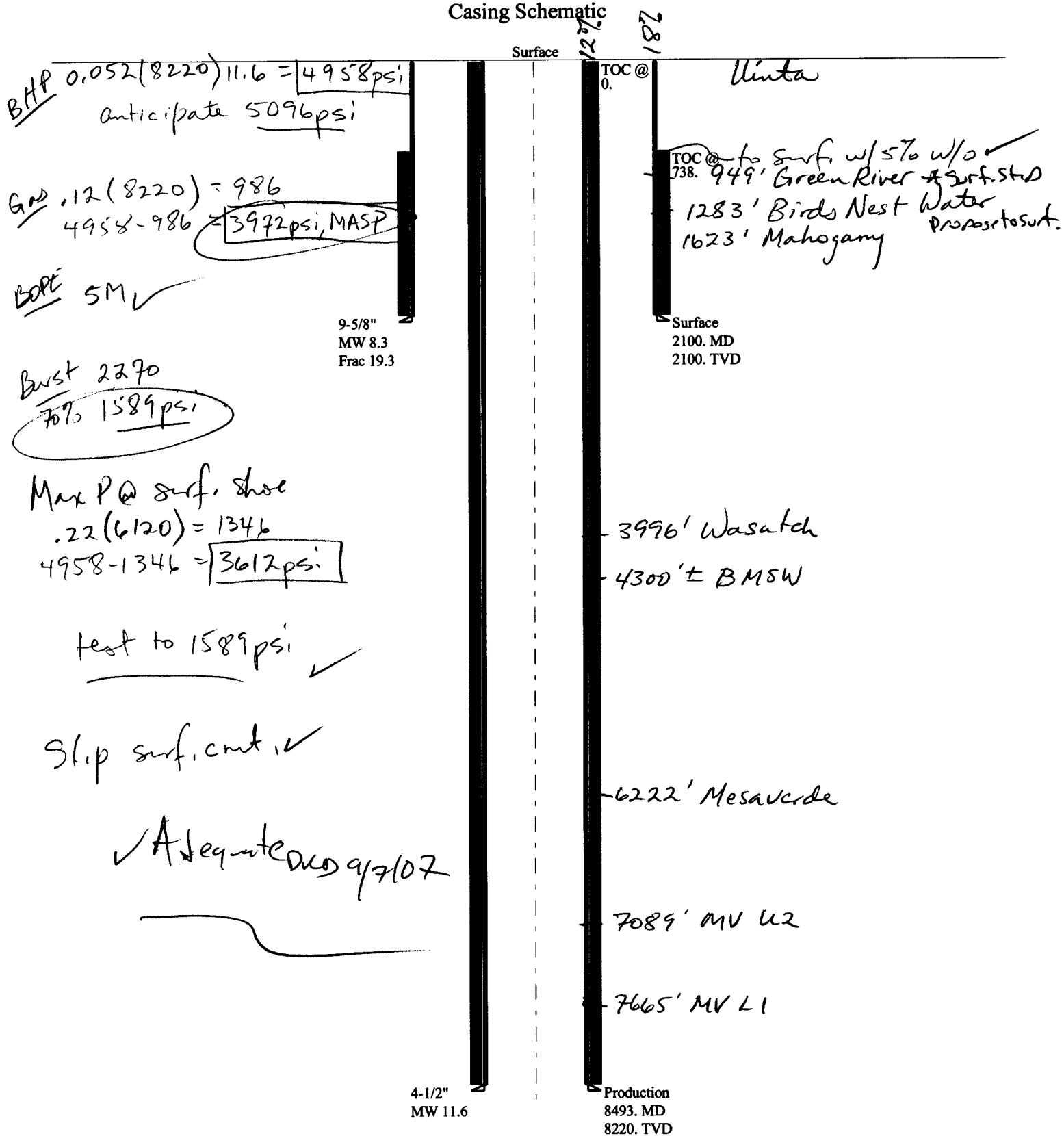
Daniel Emmet represented the Utah Division of Wildlife Resources. Mr. Emmet stated the area is classified as critical yearlong habitat for antelope. He however recommended no stipulations for this species as the loss of forage from this location is not significant and water not forage is the factor limiting the herd population in the area. No other wildlife is expected to be affected. He gave Carrol Estes, representing Kerr McGee, and Jim Davis copies of his evaluation and a DWR recommended seed mix to use when re-vegetating the area.

Floyd Bartlett
Evaluator

6/27/2007
Date / Time

2007-09 Kerr McGee NBU 1022-13M2CS

Casing Schematic



Well name:	2007-09 Kerr McGee NBU 1022-13M2CS	
Operator:	Kerr McGee Oil & Gas Onshore L.P.	
String type:	Surface	Project ID: 43-047-39488
Location:	Uintah County, Utah	

Design parameters:
Collapse

Mud weight: 8.300 ppg
Design is based on evacuated pipe.

Minimum design factors:
Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 104 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,300 ft

Cement top: 738 ft

Burst

Max anticipated surface pressure: 1,848 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,100 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 1,844 ft

Non-directional string.
Re subsequent strings:

Next setting depth: 8,220 ft
Next mud weight: 11.600 ppg
Next setting BHP: 4,953 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,100 ft
Injection pressure: 2,100 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	2100	9.625	32.30	H-40	ST&C	2100	2100	8.876	927.9

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	905	1370	1.513	2100	2270	1.08	60	254	4.26 J

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & Minerals

Phone: (801) 538-5357
FAX: (801) 359-3940

Date: September 4, 2007
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2100 ft, a mud weight of 8.3 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	2007-09 Kerr McGee NBU 1022-13M2CS	
Operator:	Kerr McGee Oil & Gas Onshore L.P.	
String type:	Production	Project ID: 43-047-39488
Location:	Uintah County, Utah	

Design parameters:
Collapse

Mud weight: 11.600 ppg
Design is based on evacuated pipe.

Minimum design factors:
Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 190 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft

Cement top: Surface

Burst

Max anticipated surface pressure: 3,145 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 4,953 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Directional Info - Build & Drop

Kick-off point 2260 ft
Departure at shoe: 1299 ft
Maximum dogleg: 2.5 °/100ft
Inclination at shoe: 0 °

Tension is based on buoyed weight.

Neutral point: 7,068 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	8493	4.5	11.60	I-80	LT&C	8220	8493	3.875	741.2

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	4953	6360	1.284	4953	7780	1.57	79	212	2.69 J

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & Minerals

Phone: (801) 538-5357
FAX: (801) 359-3940

Date: September 4, 2007
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 8220 ft, a mud weight of 11.6 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

August 9, 2007

Memorandum

To: Assistant District Manager Minerals, Vernal District
From: Michael Coulthard, Petroleum Engineer
Subject: 2007 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2007 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ Wasatch/MesaVerde)		
43-047-39473	NBU 1022-13K4S	Sec 13 T10S R22E 1739 FSL 1745 FWL
	BHL	Sec 13 T10S R22E 1925 FSL 2280 FWL
43-047-39474	NBU 1022-1313S	Sec 13 T10S R22E 1735 FSL 1764 FWL
	BHL	Sec 13 T10S R22E 1900 FSL 1225 FEL
43-047-39475	NBU 1022-1314S	Sec 13 T10S R22E 1724 FSL 1824 FWL
	BHL	Sec 13 T10S R22E 1360 FSL 0440 FEL
43-047-39476	NBU 1022-1301CS	Sec 13 T10S R22E 1747 FSL 1705 FWL
	BHL	Sec 13 T10S R22E 0775 FSL 1920 FEL
43-047-39477	NBU 1022-13J4S	Sec 13 T10S R22E 1728 FSL 1804 FWL
	BHL	Sec 13 T10S R22E 1760 FSL 1845 FEL
43-047-39478	NBU 1022-1301AS	Sec 13 T10S R22E 1731 FSL 1784 FWL
	BHL	Sec 13 T10S R22E 1310 FSL 1540 FEL
43-047-39479	NBU 1022-1302S	Sec 13 T10S R22E 1743 FSL 1725 FWL
	BHL	Sec 13 T10S R22E 1175 FSL 2055 FEL

43-047-39480	NBU 1022-1304S	Sec 13 T10S R22E 1750 FSL 1686 FWL
	BHL	Sec 13 T10S R22E 0460 FSL 1925 FEL
43-047-39481	NBU 1022-13K3S	Sec 13 T10S R22E 1610 FSL 1343 FWL
	BHL	Sec 13 T10S R22E 1370 FSL 1975 FWL
43-047-39482	NBU 1022-13M1S	Sec 13 T10S R22E 1538 FSL 1275 FWL
	BHL	Sec 13 T10S R22E 0930 FSL 0700 FWL
43-047-39483	NBU 1022-13M2AS	Sec 13 T10S R22E 1595 FSL 1329 FWL
	BHL	Sec 13 T10S R22E 1315 FSL 0600 FWL
43-047-39484	NBU 1022-13N1S	Sec 13 T10S R22E 1566 FSL 1302 FWL
	BHL	Sec 13 T10S R22E 0725 FSL 1990 FWL
43-047-39485	NBU 1022-13L3S	Sec 13 T10S R22E 1624 FSL 1356 FWL
	BHL	Sec 13 T10S R22E 1665 FSL 0590 FWL
43-047-39486	NBU 1022-13L4S	Sec 13 T10S R22E 1638 FSL 1370 FWL
	BHL	Sec 13 T10S R22E 1960 FSL 0690 FWL
43-047-39487	NBU 1022-13N2S	Sec 13 T10S R22E 1581 FSL 1316 FWL
	BHL	Sec 13 T10S R22E 1050 FSL 1975 FWL
43-047-39488	NBU 1022-13M2CS	Sec 13 T10S R22E 1552 FSL 1289 FWL
	BHL	Sec 13 T10S R22E 0750 FSL 0270 FWL
43-047-39489	NBU 1022-13K-3T	Sec 13 T10S R22E 1754 FSL 1666 FWL

Our records indicate the bottom hole location of the NBU 1022-1314S is closer than 460 feet from the Natural Buttes Unit boundary.

We have no objections to permitting the wells so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

bcc: File - Natural Buttes Unit
 Division of Oil Gas and Mining
 Central Files
 Agr. Sec. Chron
 Fluid Chron

MCoulthard:mc:8-9-07

From: Ed Bonner
To: Mason, Diana
Date: 8/20/2007 3:07 PM
Subject: Well Clearance

CC: Davis, Jim; Garrison, LaVonne; Hill, Brad; Hunt, Gil

The following wells have been given cultural resources clearance by the Trust Lands Cultural Resources Group:

Cabot Oil & Gas Corporation
McKenna 21-32 (API 43 037 31863)

Kerr McGee Oil & Gas Onshore LP
NBU 1022-13K4S (API 43 047 39473)
NBU 1022-13I3S (API 43 047 39474)
NBU 1022-13I4S (API 43 047 39475)
NBU 1022-13O1CS (API 43 047 39476)
NBU 1022-13J4S (API 43 047 39477)
NBU 1022-13O1AS (API 43 047 39478)
NBU 1022-13O2S (API 43 047 39479)
NBU 1022-13O4S (API 43 047 39480)
NBU 1022-13K3S (API 43 047 39481)
NBU 1023-13M1S (API 43 047 39482)
NBU 1022-13M2AS (API 43 047 39483)
NBU 1022-13N1S (API 43 047 39484)
NBU 1022-13L3S (API 43 047 39485)
NBU 1022-13L4S (API 43 047 39486)
NBU 1022-13N2S (API 43 047 39487)
NBU 1022-13M2SC (API 43 047 39488)
NBU 1022-13K-3T (API 43 047 39489)

Petro-Canada Resources (USA), Inc
State 16-41 (API 43 015 30721)
State 32-44 (API 43 015 30722)

Royale Energy, Inc
Vernal Equinox 2-2 (API 43 019 31552)

XTO Energy, Inc
State of Utah 16-8-31-13 (API 43 015 30719)
State of Utah 16-8-31-33D (API 43 015 30718)

If you have any questions regarding this matter please give me a call.



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil Gas and Mining

JOHN R. BAZA
Division Director

September 11, 2007

Kerr McGee Oil & Gas Onshore LP
1368 S 1200 E
Vernal, UT 84078

Re: NBU 1022-13M2CS Well, 1552' FSL, 1289' FWL, NW SW, Sec. 13, T. 10 South,
R. 22 East, Bottom Location 750' FSL, 270' FWL, SW SW, Sec. 13, T. 10 South,
R. 22 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-39488.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor
SITLA
Bureau of Land Management, Vernal Office

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
6. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.
7. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.
8. Surface casing shall be cemented to the surface.

Operator: Kerr McGee Oil & Gas Onshore LP
Well Name & Number NBU 1022-13M2CS
API Number: 43-047-39488
Lease: STUO-08512-ST

Location: NW SW **Sec.** 13 **T.** 10 South **R.** 22 East
Bottom Location: SW SW **Sec.** 13 **T.** 10 South **R.** 22 East

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following action during drilling of this well:

- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment – contact Dan Jarvis
- 24 hours prior to spudding the well – contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program – contact Dustin Doucet
- Prior to commencing operations to plug and abandon the well – contact Dan Jarvis

The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Plugging and abandonment or significant plug back of this well – contact Dustin Doucet
- Any changes to the approved drilling plan – contact Dustin Doucet

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at: (801) 538-5338 office (801) 942-0873 home
- Carol Daniels at: (801) 538-5284 office
- Dustin Doucet at: (801) 538-5281 office (801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078 Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739483	NBU 1022-13M2AS		NESW	13	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<u>B</u>	99999	<u>2900</u>	10/29/2007		<u>10/31/07</u>		
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL LOCATION ON 10/29/2007 AT 0800 HRS. <u>BHL = NESW</u>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739484	NBU 1022-13N1S		NESW	13	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<u>B</u>	99999	<u>2900</u>	10/29/2007		<u>10/31/07</u>		
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL LOCATION ON 10/29/2007 AT 1330 HRS. <u>BHL = SESW</u>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739488	NBU 1022-13M2CS		NWSW	13	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<u>B</u>	99999	<u>2900</u>	10/29/2007		<u>10/31/07</u>		
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL LOCATION ON 10/29/2007 AT 1900 HRS. <u>BHL = SWSW</u>							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

SHEILA UPCHEGO

Name (Please Print)

Signature

SENIOR LAND SPECIALIST

10/30/2007

Title

Date

RECEIVED

OCT 30 2007

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: STUO-08512-ST
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE LP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1552'FSL, 1289'FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSW 13 10S 22E		8. WELL NAME and NUMBER: NBU 1022-13M2CS
PHONE NUMBER: (435) 781-7024		9. API NUMBER: 4304739488
		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
		COUNTY: UINTAH
		STATE: UTAH

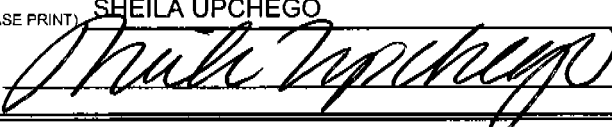
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: WELL SPUD
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX.

SPUD WELL LOCATION ON 10/29/2007 AT 1900 HRS.

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE SENIOR LAND ADMIN SPECIALIST
SIGNATURE 	DATE 10/30/2007

(This space for State use only)

RECEIVED

NOV 01 2007

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: STUO-08512-ST
2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1552'FSL, 1289'FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSW 13 10S 22E		8. WELL NAME and NUMBER: NBU 1022-13M2CS
PHONE NUMBER: (435) 781-7024		9. API NUMBER: 4304739488
COUNTY: UINTAH		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
STATE: UTAH		


11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: SET SURFACE CSG
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU BILL MARTIN AIR RIG ON 11/10/2007. DRILLED 12 1/4" SURFACE HOLE TO 2170'. RAN 9 5/8" 42 JTS OF 32.3# H-40 AND 12 JTS OF 36# J-55 SURFACE CSG. LEAD CMT W/300 SX PREM CLASS G @15.8 PPG 1.15 YIELD. TAILED CMT W/150 SX PREM CLASS G @15.8 PPG 1.15 YIELD. NO RETURNS TO PIT. TOP OUT W/600 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE GOOD CMT TO SURFACE HOLE STAYED FULL.

WORT

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE SENIOR LAND ADMIN SPECIALIST
SIGNATURE 	DATE 11/13/2007

(This space for State use only)

RECEIVED
NOV 20 2007
DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____			5. LEASE DESIGNATION AND SERIAL NUMBER: STUO-08512-ST
			6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP			7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
			8. WELL NAME and NUMBER: NBU 1022-13M2CS
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078		9. API NUMBER: 4304739488	
		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1552'FSL, 1289'FWL			
			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSW 13 10S 22E			STATE: UTAH


11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON	
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: FINAL DRILLING OPERATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION		

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

FINISHED DRILLING FROM 2170' TO 8495' ON 12/20/2007. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/310 SX PREM LITE II @11.0 PPG 3.38 YIELD. TAILED CMT W/1250 SX 50/50 POZ @14.3 PPG 1.31 YIELD. DROPPED & DISPLACED W/131.5 BBLs FRESH WATER @2400 PSI BUMPED PLUG @2890 PSI FLOAT HELD W/1.5 BBL RETURN GOOD RETURNS THROUGHOUT CMT JOB W/30 BBLs CMT TO SURFACE. N/ND BOPE & SET SLIPS ON 4 1/2 PROD CSG. ROUGH CUT CSG & L/OUT SAME CLEAN MUD TANKS.

RELEASED PIONEER RIG 54 ON 12/22/2007 AT MIDNIGHT.

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE SENIOR LAND ADMIN SPECIALIST
SIGNATURE 	DATE 12/26/2007

(This space for State use only)

NOTICE OF LATE REPORTING DRILLING & COMPLETION INFORMATION

Utah Oil and Gas Conservation General Rule R649-3-6 states that,

- Operators shall submit monthly status reports for each drilling well (including wells where drilling operations have been suspended).

Utah Oil and Gas Conservation General Rule R649-3-21 states that,

- A well is considered completed when the well has been adequately worked to be capable of producing oil or gas or when well testing as required by the division is concluded.
- Within 30 days after the completion or plugging of a well, the following shall be filed:
 - Form 8, Well Completion or Recompletion Report and Log
 - A copy of electric and radioactivity logs, if run
 - A copy of drillstem test reports,
 - A copy of formation water analyses, porosity, permeability or fluid saturation determinations
 - A copy of core analyses, and lithologic logs or sample descriptions if compiled
 - A copy of directional, deviation, and/or measurement-while-drilling survey for each horizontal well

Failure to submit reports in a timely manner will result in the issuance of a Notice of Violation by the Division of Oil, Gas and Mining, and may result in the Division pursuing enforcement action as outlined in Rule R649-10, Administrative Procedures, and Section 40-6-11 of the Utah Code.

As of the mailing of this notice, the division has not received the required reports for

Operator: Kerr-McGee Oil & Gas Onshore, LP Today's Date: 04/21/2008

Well: 43 047 39488 API Number: Drilling Commenced:
NBU 1022-13M2CS
10S 22E 13

☒ List Attached

To avoid compliance action, required reports should be mailed within 7 business days to:

Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

If you have questions or concerns regarding this matter, please contact Rachel Medina
at (801) 538-5260.

cc: Well File
Compliance File

**NOTICE OF LATE REPORTING
DRILLING & COMPLETION INFORMATION**

ATTACHMENT

Operator: Kerr-McGee Oil & Gas Onshore, LP

Today's Date: 04/21/2008

Well:	API Number:	Drilling Commenced:
NBU 1022-13L3S	4304739485	10/26/2007
NBU 1022-13L4S	4304739486	10/26/2007
NBU 1022-13K3S	4304739481	10/27/2007
NBU 1022-13N2S	4304739487	10/27/2007
NBU 1022-13M2AS	4304739483	10/29/2007
NBU 1022-13N1S	4304739484	10/29/2007
NBU 1022-13M2CS	4304739488	10/29/2007
NBU 1022-13M1S	4304739482	10/30/2007
NBU 1021-1G	4304739001	11/01/2007
NBU 102213O4S	4304739480	11/12/2007
NBU 1022-13K-3T	4304739489	11/12/2007
NBU 1022-13O1CS	4304739476	11/13/2007
NBU 1022-13I4S	4304739475	11/15/2007
NBU 1022-13J4S	4304739477	11/15/2007

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

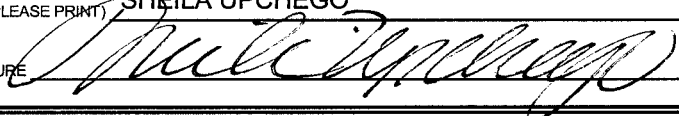
1. TYPE OF WELL	OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____	5. LEASE DESIGNATION AND SERIAL NUMBER: STUO-08512-ST
2. NAME OF OPERATOR:	KERR McGEE OIL & GAS ONSHORE LP	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR:	1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078	7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
4. LOCATION OF WELL	FOOTAGES AT SURFACE: 1552'FSL, 1289'FWL	8. WELL NAME and NUMBER: NBU 1022-13M2CS
	QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSW 13 10S 22E	9. API NUMBER: 4304739488
		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
		COUNTY: UINTAH
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: <u>PRODUCTION START-UP</u>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL LOCATION WAS PLACED ON PRODUCTION ON 05/01/2008 AT 1300 HRS.

PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE SENIOR LAND ADMIN SPECIALIST
SIGNATURE 	DATE 5/2/2008

(This space for State use only)

RECEIVED

MAY 08 2008

WINS No.: 95386

NBU 1022-13M2CS

Start Date: 10/29/2007

AFE No.: 2008164

Operation Summary Report

End Date: 12/23/2007

Operator KERR-MCGEE OIL & GAS ONSHORE LP		FIELD NAME NATURAL BUTTES		SPUD DATE 10/29/07		GL 5,287		KB 5306		ROUTE	
API 4304739488		STATE UTAH		COUNTY UINTAH				DIVISION ROCKIES			
Lat./Long.: Lat./Long.: 39.94591 / -109.39300				Q-Q/Sect/Town/Range: / 13 / 10S / 22E				Footages: 1,552.00' FSL 1,289.00' FWL			
MTD 8365		TVD 8301		LOG MD		PBMD		PBTVD			
EVENT INFORMATION:				EVENT ACTIVITY: DRILLING OBJECTIVE: DEVELOPMENT OBJECTIVE2:				REASON: DATE WELL STARTED/RESUMED: : Event End Status: COMPLETE			
RIG OPERATIONS:		Begin Mobilization		Rig On Location		Rig Charges		Rig Operation Start		Finish Drilling	
PIONEER 54 / 54		12/11/2007		12/11/2007		12/12/2007		12/12/2007		12/20/2007	
12/22/2007		12/22/2007		12/22/2007		12/22/2007		12/22/2007		12/22/2007	
Date	Time Start-End	Duration (hr)	Phase	Code	Subco de	P/U	Operation				
10/29/2007											
SUPERVISOR: LEW WELDON											
	0:00 - 18:00	18.00	DRLCON	12	F	P	WAIT ON PETE MARTIN BUCKET RIG				
	18:00 - 0:00	6.00	DRLCON	02	A	P	MOVE IN AND RIG UP BUCKET RIG SPUD WELL @ 1900 HR 10/29/07 DRILL AND SET 40' OF SCHEDULE 10 PIPE DRILL ROSDENT HOLES FOR RIG 54 BLM AND STATE NOTFIED OF SPUD				
11/5/2007											
SUPERVISOR: LEW WELDON											
	0:00 - 20:00	20.00	DRLSUR	12	F	P	WAIT ON BILL JR AIR RIG				
	20:00 - 0:00	4.00	DRLSUR	02	A	P	MOVE IN AND RIG UP SPUD WELL @ 2000 HR 11/5/07 DA AT REPORT TIME				
11/6/2007											
SUPERVISOR: LEW WELDON											
	0:00 - 8:30	8.50	DRLSUR	02	A	P	RIG T/D PIOLET HOLE @ 1020' CONDITION HOLE 1 HR				
	8:30 - 10:30	2.00	DRLSUR	05	A	P	TRIP DP OUT OF HOLE AND RIG DOWN AIR RIG				
11/10/2007											
SUPERVISOR: LEW WELDON											
	0:00 - 17:00	17.00	DRLSUR	12	F	P	WAIT ON BILL JR AIR RIG				
	17:00 - 0:00	7.00	DRLSUR	02	A	P	MOVE IN AND RIG UP RIH TO 1020' SPUD WELL @ 1700 HR 11/10/07 HIT TRONA WATER @ 1410' CIRCULATING WITH SKID PUMP DA AT REPORT TIME				
11/11/2007											
SUPERVISOR: LEW WELDON											
	0:00 - 18:00	18.00	DRLSUR	02	A	P	RIG DRILLING AHEAD CIRCULATING WITH SKID PUMP				
	18:00 - 23:00	5.00	DRLSUR	02	A	P	RIG T/D @ 2170' CONDITION HOLE 1 HR				
	23:00 - 0:00	1.00	DRLSUR	05	D	P	TRIP DP OUT OF HOLE				
11/12/2007											
SUPERVISOR: LEW WELDON											
	0:00 - 2:00	2.00	DRLSUR	05	D	P	TRIP DP OUT OF HOLE				
	2:00 - 5:00	3.00	DRLSUR	11	B	P	RUN 2129' OF 9 5/8 CSG AND RIG DOWN AIR RIG				
	5:00 - 6:00	1.00	DRLSUR	15	A	P	CEMENT 1ST STAGE WITH 300 SKS NO RETURNS TO PIT				
	6:00 - 6:30	0.50	DRLSUR	15	A	P	1ST TOP JOB 150 SKS DOWN BS WOC				
	6:30 - 8:30	2.00	DRLSUR	15	A	P	2ND TOP JOB 150 SKS DOWN BS WOC				
	8:30 - 11:00	2.50	DRLSUR	15	A	P	3RD TOP JOB 150 SKS DOWN BS WOC				
	11:00 - 13:00	2.00	DRLSUR	15	A	P	4TH TOP JOB 150 SKS DOWN BS WOC				

EVENT INFORMATION:	EVENT ACTIVITY: DRILLING	REASON:
	OBJECTIVE: DEVELOPMENT	DATE WELL STARTED/RESUMED:
	OBJECTIVE2:	Event End Status: COMPLETE

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
PIONEER 54 / 54	12/11/2007	12/11/2007	12/12/2007	12/12/2007	12/20/2007	12/22/2007	12/22/2007

Date	Time Start-End	Duration (hr)	Phase	Code	Subco de	P/U	Operation
	13:00 - 15:00	2.00	DRLSUR	15	A	P	5TH TOP JOB 150 SKS DOWN BS GOOD CMT TO SURFACE AND STAYED AT SURFACE
	15:00 - 0:00	9.00	DRLSUR	12	F	P	NO VISIBLE LEAKS WORT

12/11/2007

SUPERVISOR: KENT MOORE/JAMES GOBER

0:00 - 11:00	11.00	DRLPRO	01	E	P	RDRT
11:00 - 14:00	3.00	DRLPRO	01	C	P	SKID RIG 20' TO NEW LOC. NBU 1022-13M2CS
14:00 - 21:00	7.00	DRLPRO	01	B	P	RURT
21:00 - 0:00	3.00	DRLPRO	13	A	P	N/UP BOP (N/UP ROTATING HEAD ASSY, FLOWLINE & CHOKELINE

12/12/2007

SUPERVISOR: KENT MOORE/JAMES GOBER

0:00 - 6:00	6.00	DRLPRO	13	C	P	TEST BOP - RAMS, CHOKE, CHOKE LINE, KELLY & FLOOR VALVES 250 LOW 5000 HIGH - ANNULAR 250 LOW 2500 HIGH - CASING 1500
6:00 - 12:30	6.50	DRLPRO	05		P	HPJSM - R/UP L/DN MACHINE - P/UP DIRECTIONAL BHA/DRILL PIPE TO 2059'
12:30 - 14:00	1.50	DRLPRO	13	A	P	INSTALL ROTATING HEAD RUBBER - CENTER BOP - CHECK FOR LEAKS FLOWLINE & SEPERATOR LINES
14:00 - 16:30	2.50	DRLPRO	02	F	P	DRILL CMT , FE & RATHOLE TO 2189'
16:30 - 0:00	7.50	DRLPRO	02	D	P	DRILL/SLIDE F/2189' TO 2664' ROP= 63.33'/HR START KICK OUT @ 2218' BUILD APPROX 1.7 DEG./63'.

12/13/2007

SUPERVISOR: KENT MOORE/JAMES GOBER

0:00 - 11:30	11.50	DRLPRO	02	D	P	SLIDE DRILL F/ 2664' - 3184' (520' @ 45.2fph) 8.5ppg
11:30 - 12:00	0.50	DRLPRO	06	A	P	RIG SER
12:00 - 0:00	12.00	DRLPRO	02	D	P	DRILL/SLIDE F/3184' TO 3734' (550' @ 45.8'/HR) (INC 28.25 AZM 230.05 @ 3684')

12/14/2007

SUPERVISOR: KENT MOORE/JAMES GOBER

0:00 - 13:00	13.00	DRLPRO	02	D	P	DRILL/SLIDE F/ 3734' - 4272' (538' @ 41.4fph) 8.8ppg
13:00 - 13:30	0.50	DRLPRO	06	A	P	RIG SER
13:30 - 15:00	1.50	DRLPRO	02	D	P	DRILL/SLIDE F/4272' TO 4380' (108' @ 72fph) 9.0ppg
15:00 - 15:30	0.50	DRLPRO	07	A	S	REPAIR RIG - RIG AIR COMPRESSOR
15:30 - 0:00	8.50	DRLPRO	02	D	P	DRILL/SLIDE F/4380' TO 4730'. (350' @ 41.2'/HR)

12/15/2007

SUPERVISOR: KENT MOORE/JAMES GOBER

0:00 - 14:30	14.50	DRLPRO	02	D	P	DRILL/SLIDE F/ 4730' - 5252' (522' @ 36fph) 9.6ppg
14:30 - 15:00	0.50	DRLPRO	06	A	P	RIG SER
15:00 - 0:00	9.00	DRLPRO	02	D	P	DRILL/SLIDE F/5252' TO 5520' (268' @ 29.7'/HR) LAST SURVEY 5456' INC 14.31 AZM 227.93

12/16/2007

SUPERVISOR: KENT MOORE/JAMES GOBER

0:00 - 14:00	14.00	DRLPRO	02	D	P	DRILL/SLIDE F/5520' TO 5886' (366' @ 26fph) 9.9ppg
14:00 - 14:30	0.50	DRLPRO	06	A	P	RIG SER - C/OUT ROTATING RUBBER
14:30 - 0:00	9.50	DRLPRO	02	D	P	DRILL/SLIDE F/5886' TO 6104' (218' @ 22.9'/HR)

12/17/2007

SUPERVISOR: KENT MOORE/JAMES GOBER

0:00 - 15:30	15.50	DRLPRO	02	D	P	DRILL/SLIDE 6104'- 6518' (414' @ 26.7fph) 9.9ppg
--------------	-------	--------	----	---	---	--

EVENT INFORMATION:	EVENT ACTIVITY: DRILLING OBJECTIVE: DEVELOPMENT OBJECTIVE2:	REASON: DATE WELL STARTED/RESUMED: Event End Status: COMPLETE
--------------------	---	---

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
PIONEER 54 / 54	12/11/2007	12/11/2007	12/12/2007	12/12/2007	12/20/2007	12/22/2007	12/22/2007

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
	15:30 - 16:00	0.50	DRLPRO	06	A	P	RIG SER
	16:00 - 0:00	8.00	DRLPRO	02	D	P	DRILL/SLIDE 6518' TO 6751' (233' @ 29.1'/HR)

12/18/2007

SUPERVISOR: KENT MOORE/JAMES GOBER

0:00 - 8:00	8.00	DRLPRO	02	D	P	DRILL 6751' TO 6960' (209' @ 26.1fph) 10.4ppg
8:00 - 11:30	3.50	DRLPRO	05	A	P	TFNB - MAX DRAG 80K TO 4300' - 20K DRAG 4300' TO CSG SHOE @ 2150'
11:30 - 12:30	1.00	DRLPRO	05	A	P	L/DN DIRECTIONAL TOOLS - P/UP BIT #2 - SET MM TO 0 deg
12:30 - 13:30	1.00	DRLPRO	05	A	P	RIH TO 1950'
13:30 - 14:00	0.50	DRLPRO	07	A	S	REPAIR RIG - REPLACED WATER STUFFING BOX OFF DRILLERS SIDE DRAWWORKS
14:00 - 14:30	0.50	DRLPRO	05	A	P	RIH F/1950' TO 2150'
14:30 - 16:30	2.00	DRLPRO	07	A	S	BOILER FUEL JELLING - UNABLE TO MAINTAIN BOILER - UNTHAWED STEAM LINES & HEATERS
16:30 - 19:30	3.00	DRLPRO	05	A	P	RIH F/2150' TO 6960'
19:30 - 0:00	4.50	DRLPRO	02	B	P	DRILL 6960' TO 7140' (180' @ 40'/HR)

12/19/2007

SUPERVISOR: KENT MOORE/JAMES GOBER

0:00 - 15:30	15.50	DRLPRO	02	B	P	DRILL 7104' TO 7753' (649' @ 41.9fph) 10.8ppg
15:30 - 16:00	0.50	DRLPRO	06	A	P	RIG SER
16:00 - 0:00	8.00	DRLPRO	02	B	P	DRILL 7753' TO 8070' (317' @ 39.62'/HR)

12/20/2007

SUPERVISOR: KENT MOORE

0:00 - 12:30	12.50	DRLPRO	02	B	P	DRILL 8070' TO 8370' (300' @ 24fph) 11.4ppg
12:30 - 13:30	1.00	DRLPRO	04	F	P	CIRC BTMS UP F/SAMPLES - GAS SHOW OF 1452 UNITS (BREAK F/8364' TO 8378')
13:30 - 17:30	4.00	DRLPRO	02	B	P	DRILL 8370' TO 8495' (125' @ 31.3fph) 11.6ppg
17:30 - 18:30	1.00	DRLPRO	04	F	P	CIRC BTMS UP
18:30 - 0:00	5.50	DRLPRO	05	E	P	W/TRIP TO 2150'

12/21/2007

SUPERVISOR: KENT MOORE

0:00 - 5:00	5.00	DRLPRO	05	B	P	POOH F/LOGS
5:00 - 11:30	6.50	DRLPRO	08	F	P	HPJSM - R/UP BAKER ATLAS - RUN TRIPLE COMBO TO LOGGERS TD @ 8476' MD - 8222' TVD
11:30 - 15:30	4.00	DRLPRO	05	F	P	RIH TO 8448' - WASH F/8448' TO 8495'
15:30 - 17:00	1.50	DRLPRO	04	C	P	CIRC - HPJSM - R/UP L/DN MACHINE
17:00 - 23:00	6.00	DRLPRO	05	A	P	LDDP - RACK 10 STDS HWDP IN DERRICK
23:00 - 23:30	0.50	DRLPRO	13	B	P	RETRIEVE WEARBUSHING
23:30 - 0:00	0.50	DRLPRO	11	A	P	HPJSM - R/UP CASING CREW & EQUIP

12/22/2007

SUPERVISOR: KENT MOORE

0:00 - 4:00	4.00	CSG	11	B	P	RUN 108 JTS PROD CASING - MARKER JT NOT MAKING UP - REPLACE MARKER JT - UNABLE TO MOVE CASING AFTER M/UP OF MARKER JOINT
4:00 - 12:00	8.00	CSG	04	E	X	CIRC CASING @ 4536' - UNABLE TO MOVE CASING - WORK CASING, NO MOVEMENT - SPOT 70 bbl DIESEL CONTINUE WORK CASING - CASING FREE @ 12:00 HRS
12:00 - 14:00	2.00	CSG	11	B	P	CONTINUE RUN 93 JTS (TOTAL JTS RUN 201) 4 1/2 PROD CASING TO MD 8495' TVD 8241'
14:00 - 15:30	1.50	CSG	04	E	P	CIRC CSG

Wins No.: 95386		NBU 1022-13M2CS				API No.: 4304739488	
EVENT INFORMATION:		EVENT ACTIVITY: DRILLING				REASON:	
		OBJECTIVE: DEVELOPMENT				DATE WELL STARTED/RESUMED:	
		OBJECTIVE2:				Event End Status: COMPLETE	
RIG OPERATIONS:		Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release
PIONEER 54 / 54		12/11/2007	12/11/2007	12/12/2007	12/12/2007	12/20/2007	12/22/2007
Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
	15:30 - 18:00	2.50	CSG	15	A	P	HPJSM - R/UP BJ - TEST LINES @ 3900 PSI - CEMENT 4 1/2 PROD CASING W/20 BBLS MUD CLEAN 8.34 PPG - 20 SKS SCAVENGER 9.5 PPG 8.45 YIELD - 310 SKS LEAD 11.0 PPG 3.38 YIELD - 1250 SKS TAIL 14.3 PPG 1.31 YIELD - DROPPED & DISPLACED W/131.5 BBLS FRESH WATER @2400 PSI - BUMPED PLUG @# 2890 PSI - FLOAT HELD W/1.5 BBL RETURN - GOOD RETURNS THROUGHOUT CEMENT JOB W/30 BBLS CEMENT TO SURFACE
	18:00 - 0:00	6.00	CSG	13	A	P	N/DN BOPE & SET SLIPS ON 4 1/2 PROD CSG - ROUGH CUT CSG & L/OUT SAME - TRANSFER 400 BBLS MUD TO UPRIGHT TANK - 130 BBLS RIG #59 & 130 BBLS RIG #38 - CLEAN RIG TANKS & WINTERIZE EQUIP - PIT LINER OK - RESERVE PIT 1/2 FULL - RELEASE RIG @ 00:00 HRS 12/22/07

WINS No.: 95386

NBU 1022-13M2CS

Start Date: 4/21/2008

AFE No.: 2008164

Operation Summary Report

End Date:

Operator KERR-MCGEE OIL & GAS ONSHORE LP	FIELD NAME NATURAL BUTTES	SPUD DATE 10/29/07	GL 5,287	KB 5306	ROUTE
API 4304739488	STATE UTAH	COUNTY UINTAH	DIVISION ROCKIES		
Lat./Long.: Lat./Long.: 39.94591 / -109.39300			Q-Q/Sect/Town/Range: / 13 / 10S / 22E		
Footages: 1,552.00' FSL 1,289.00' FWL					
MTD 8365	TVD 8301	LOG MD	PBMD	PBTVD	

EVENT INFORMATION: EVENT ACTIVITY: COMPLETION
OBJECTIVE: DEVELOPMENT
OBJECTIVE2: ORIGINAL

REASON: MV - WHR PAD#2
DATE WELL STARTED/RESUMED:
Event End Status:

RIG OPERATIONS: Begin Mobilization Rig On Location Rig Charges Rig Operation Start Finish Drilling Rig Release Rig Off Location

Date	Time Start-End	Duration (hr)	Phase	Code	Subco de	P/U	Operation
4/21/2008							
SUPERVISOR: DOUG CHIVERS							
	7:00 - 7:30	0.50	COMP	48		P	HSM. FRACING & PERFORATING
	7:30 - 18:00	10.50	COMP	36	B	P	PRIME UP PUMPS & LINES. PRESSURE TEST SURFACE EQUIPMENT TO 8,500 PSI.
STG 1) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. PERF 8,430' - 37' 4 SPF, 8,371' - 74' 4 SPF, 40 HOLES. WHP 1,580 PSI BRK 3,185 PSI @ 3.4 BPM, ISIP 2,380 PSI, FG .72. PMP 100 BBLs @ 51.6 BPM @ 4,800 PSI = 30 OF 40 HOLES OPEN. MP 7,048, MR 52.3 BPM, AP 4,612 PSI, AR 51.2 BPM, ISIP 2,831 PSI, FG .78, NPI 451 PSI. PUMP 1,053 BBLs OF SW & 24,861 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN COATED SAND. TOTAL PROP 29,861 LBS.							
STG 2) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. SET 8K BAKER CBP @ 8,230' & PERF 8,193' - 8,200' 4 SPF, 8,157' - 60' 4 SPF, 40 HOLES. WHP 2,350 PSI BRK 4,609 PSI @ 2.9 BPM, ISIP 2,507 PSI, FG .75. PMP 100 BBLs @ 50.9 BPM @ 5,050 PSI = 26 OF 40 HOLES OPEN. MP 5,395, MR 51.3 BPM, AP 4,573 PSI, AR 50.8 BPM, ISIP 2,708 PSI, FG .77, NPI 201 PSI. PUMP 1,249 BBLs OF SW & 39,023 LBS OF 30/50 SAND & 5,050 LBS OF 20/40 RESIN COATED SAND. TOTAL PROP 44,073 LBS.							
STG 3) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 120 DEG PHASING. P/U 4 1/2" CBP SET 8K BAKER CBP @ 8,038' & PERF 8,003' - 08' 4 SPF, 7,938' - 42' 3 SPF, 7,817' - 20' 3 SPF, 41 HOLES. WHP 2,210 PSI BRK 4,426 @ 3.0 BPM, ISIP 2,602 PSI, FG .77. PMP 100 BBLs @ 51.6 BPM @ 4,700 PSI = 38 OF 41 HOLES OPEN. MP 6,053, MR 52.0 BPM, AP 4,498 PSI, AR 51.5 BPM, ISIP 2,606 PSI, FG .77, NPI 4 PSI. PUMP 2,131 BBLs OF SW & 73,666 LBS OF 30/50 SAND & 5,123 LBS OF 20/40 RESIN COATED SAND. TOTAL PROP 78,789 LBS.							
SWI SDFN							

4/22/2008

SUPERVISOR: DOUG CHIVERS

7:00 - 7:30 0.50 COMP 48 P HSM. FRACING & PERFORATING

EVENT INFORMATION:	EVENT ACTIVITY: COMPLETION	REASON: MV - WHR PAD#2
	OBJECTIVE: DEVELOPMENT	DATE WELL STARTED/RESUMED:
	OBJECTIVE2: ORIGINAL	Event End Status:

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
-----------------	--------------------	-----------------	-------------	---------------------	-----------------	-------------	------------------

Date	Time Start-End	Duration (hr)	Phase	Code	Subco de	P/U	Operation
	7:30 - 19:00	11.50	COMP	36	B	P	<p>STG 4) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 120 DEG PHASING. P/U 4 1/2" CBP SET 8K BAKER CBP @ 7,528' & PERF 7,493' - 98' 4 SPF, 7,426' - 30' 4 SPF, 7,365' - 68' 3 SPF, 45 HOLES.</p> <p>WHP 2,100 PSI BRK 3,187 PSI @ 2.5 BPM, ISIP 2,499 PSI, FG .78. PMP 100 BBLs @ 50 BPM @ 4,600 PSI = 32 OF 45 HOLES OPEN.</p> <p>MP 5,295, MR 50.4 BPM, AP 3,750 PSI, AR 50.1 BPM, ISIP 2,578 PSI, FG .79, NPI 79 PSI.</p> <p>PUMP 1,095 BBLs OF SW & 32,696 LBS OF 30/50 SAND & 5,043 LBS OF 20/40 RESIN COATED SAND. TOTAL PROP 37,739 LBS.</p> <p>STG 5) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. P/U 4 1/2" CBP SET 8K BAKER CBP @ 7,252' & PERF 7,215' - 22' 4 SPF, 7,165' - 68' 4 SPF, 40 HOLES.</p> <p>WHP 1970 PSI BRK 2032 PSI @ 3.4 BPM, ISIP 1791 PSI, FG .69. PMP 100 BBLs @ 50 BPM @ 4,260 PSI = 24 OF 40 HOLES OPEN.</p> <p>MP 4,587, MR 50.7 BPM, AP 3,696 PSI, AR 50.1 BPM, ISIP 2,407 PSI, FG .77, NPI 616 PSI.</p> <p>PUMP 2,593 BBLs OF SW & 92,482 LBS OF 30/50 SAND & 4,681 LBS OF 20/40 RESIN COATED SAND. TOTAL PROP 97,163 LBS.</p> <p>STG 6) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 120 DEG PHASING. P/U 4 1/2" CBP SET 8K BAKER CBP @ 7,090' & PERF 7,056' - 60' 4 SPF, 7,026' - 34' 3 SPF, 40 HOLES.</p> <p>WHP 1,750 PSI BRK 1,872 PSI @ 2.6 BPM, ISIP 1,673 PSI, FG .68. PMP 100 BBLs @ 50.5 BPM @ 4,550 PSI = 30 OF 40 HOLES OPEN 75%</p> <p>MP 4,730, MR 51.5 BPM, AP 4,039 PSI, AR 50.5 BPM, ISIP 2,461 PSI, FG .79, NPI 788 PSI.</p> <p>PUMP 1,633 BBLs OF SW & 53,723 LBS OF 30/50 SAND & 5,663 LBS OF 20/40 RESIN COATED SAND. TOTAL PROP 59,386 LBS.</p> <p>SWI SDFN</p>
4/23/2008							
SUPERVISOR: DOUG CHIVERS							
	7:00 - 7:30	0.50	COMP	48		P	HSM. FRACING & PERFORATING

EVENT INFORMATION:

EVENT ACTIVITY: COMPLETION

REASON: MV - WHR PAD#2

OBJECTIVE: DEVELOPMENT

DATE WELL STARTED/RESUMED:

OBJECTIVE2: ORIGINAL

Event End Status:

RIG OPERATIONS:

Begin Mobilization Rig On Location Rig Charges Rig Operation Start Finish Drilling Rig Release Rig Off Location

Date	Time Start-End	Duration (hr)	Phase	Code	Subco de	P/U	Operation
	7:30 - 18:30	11.00	COMP	36	B	P	<p>STG 7) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. P/U 4 1/2" CBP SET 8K BAKER CBP @ 6,861' & PERF 6,826' - 31' 4 SPF, 6,789' - 94' 4 SPF, 40 HOLES. WHP 1,525 PSI BRK 2,827 PSI @ 2.9 BPM, ISIP 1,608 PSI, FG .68. PMP 100 BBLS @ 51.2 BPM @ 3,700 PSI = 29 OF 40 HOLES OPEN 73% MP 4,561, MR 51 BPM, AP 3,770 PSI, AR 51.2 BPM, ISIP 2,343 PSI, FG .78, NPI 735 PSI. PUMP 1,957 BBLS OF SW & 64,524 LBS OF 30/50 SAND & 4,660 LBS OF 20/40 RESIN COATED SAND. TOTAL PROP 72,184 LBS.</p> <p>STG 8) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. P/U 4 1/2" CBP SET 8K BAKER CBP @ 6,692' & PERF 6,658' - 62' 4 SPF, 6,638' - 44' 4 SPF, 40 HOLES. WHP 1,830 PSI BRK 1,909 PSI @ 3.2 BPM, ISIP 1,868 PSI, FG .72. PMP 100 BBLS @ 51.3 BPM @ 4,100 PSI = 38 OF 40 HOLES OPEN 86% MP 4,472, MR 52.3 BPM, AP 3,633 PSI, AR 51.4 BPM, ISIP 2,238 PSI, FG .78, NPI 370 PSI. PUMP 2,988 BBLS OF SW & 108,544 LBS OF 30/50 SAND & 4,658 LBS OF 20/40 RESIN COATED SAND. TOTAL PROP 113,202 LBS.</p> <p>STG 9) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. P/U 4 1/2" CBP SET 8K BAKER CBP @ 6,496' & PERF 6,456' - 66' 4 SPF, 40 HOLES. WHP 1,675 PSI BRK 3,406 PSI @ 3.0 BPM, ISIP 1,932 PSI, FG .74. PMP 100 BBLS @ 50.3 BPM @ 4,000 PSI = 40 OF 40 HOLES OPEN 100% MP 4,225, MR 51 BPM, AP 3,551 PSI, AR 50.5 BPM, ISIP 1,898 PSI, FG .73, NPI -34 PSI. PUMP 655 BBLS OF SW & 15,052 LBS OF 30/50 SAND & 4,969 LBS OF 20/40 RESIN COATED SAND. TOTAL PROP 20,021 LBS.</p> <p>KILL PLG) RIH W/ 44 1/2" WEATHERFORD 8K CONVERTABLECBP & SET @ 6,200'</p> <p>PUMP UP TO 4,500 PSI TO CONVERT CBP. CBP CONVERTED. FRACS COMPLETE. SWI SDFN</p>
4/30/2008							
SUPERVISOR: MARK BONNIE	7:00 -			33	A		<p>7 AM REPORT: CP 1500#, TP 0#, 20/64" CK, 50 BWPH, TRACE SAND, MED GAS TTL BBLS RECOVERED: 925 BBLS LEFT TO RECOVER: 14,434</p>
5/1/2008							
SUPERVISOR: MARK BONNIE	7:00 -			33	A		<p>7 AM REPORT: CP 1500#, TP 0#, 20/64" CK, 45 BWPH, TRACE SAND, MED GAS TTL BBLS RECOVERED: 2185 BBLS LEFT TO RECOVER: 13,174</p>
	13:00 -		PROD				<p>WELL TURNED TO SALES @ 1300 HR ON 5/01/2008 - FCP 1600#, TP N/A, 20/64" CK, 320MCFD, 960 BWPD</p>
5/2/2008							
SUPERVISOR: MARK BONNIE	7:00 -			33	A		<p>7 AM REPORT: CP 1550#, TP 0#, 20/64" CK, 36 BWPH, TRACE SAND, 885 MCFD TTL BBLS RECOVERED: 3106 BBLS LEFT TO RECOVER: 12,253</p>

Wins No.: 95386		NBU 1022-13M2CS		API No.: 4304739488	
EVENT INFORMATION:		EVENT ACTIVITY: COMPLETION		REASON: MV - WHR PAD#2	
		OBJECTIVE: DEVELOPMENT		DATE WELL STARTED/RESUMED:	
		OBJECTIVE2: ORIGINAL		Event End Status:	
RIG OPERATIONS:		Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start
		Finish Drilling	Rig Release	Rig Off Location	
Date	Time Start-End	Duration (hr)	Phase	Code	Subcode
					P/U
Operation					
5/3/2008					
SUPERVISOR: MARK BONNIE					
	7:00 -			33	A
7 AM REPORT: CP 1600#, TP 0#, 20/64" CK, 30 BWPH, TRACE SAND, 1100 MCFD					
TTL BBLS RECOVERED: 3830					
BBLS LEFT TO RECOVER: 11,529					
5/4/2008					
SUPERVISOR: MARK BONNIE					
	7:00 -			33	A
7 AM REPORT: CP 1600#, TP 0#, 20/64" CK, 30 BWPH, TRACE SAND, 1300 MCFD					
TTL BBLS RECOVERED: 4477					
BBLS LEFT TO RECOVER: 10,882					

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL:	OIL WELL <input type="checkbox"/>	GAS WELL <input checked="" type="checkbox"/>	DRY <input type="checkbox"/>	OTHER _____		
b. TYPE OF WORK:	NEW WELL <input checked="" type="checkbox"/>	HORIZ. LATS. <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	RE-ENTRY <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	OTHER _____
2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP						
3. ADDRESS OF OPERATOR: 1368 S 1200 E CITY VERNAL STATE UT ZIP 84078			PHONE NUMBER: (435) 781-7024			
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 1552'FSL, 1289'FWL AT TOP PRODUCING INTERVAL REPORTED BELOW: AT TOTAL DEPTH: 750'FSL, 270'FWL (SW/SW) <i>696 fsl 331 fwl</i>						
5. LEASE DESIGNATION AND SERIAL NUMBER: STUO-08512-ST						
6. IF INDIAN, ALLOTTEE OR TRIBE NAME						
7. UNIT or CA AGREEMENT NAME UNIT #891008900A						
8. WELL NAME and NUMBER: NBU 1022-13M2CS						
9. API NUMBER: 4304739488						
10. FIELD AND POOL, OR WILDCAT NATURAL BUTTES						
11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSW 13 10S 22E						
12. COUNTY UINTAH						
13. STATE UTAH						

14. DATE SPURRED: 10/29/2007	15. DATE T.D. REACHED: 12/20/2007	16. DATE COMPLETED: 5/1/2008	ABANDONED <input type="checkbox"/>	READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): 5287'GL
18. TOTAL DEPTH: MD 8,495 TVD 8,241	19. PLUG BACK T.D.: MD 8,450 TVD 8,196	20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD PLUG SET: TVD	
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) CBL-CCL-GR, BPL, Comp 2, CD, CN, Cal, HDI				23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)	

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
12 1/4"	9 5/8 J-55	32.3# 36#		2,170		1050			
7 7/8"	4 1/2 I-80	11.6#		8,495		1560			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) MESAVERDE	6,456	8,437			6,456 8,437	0.36	366	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B) WSMVD								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6456'-8437'	PMP 15,359 BBLS SLICK H2O & 552,418# 30/50 SD

29. ENCLOSED ATTACHMENTS:

- ☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER

30. WELL STATUS:

PROD

RECEIVED

JUN 09 2008

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 5/1/2008		TEST DATE: 5/29/2008		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL – BBL: 0		GAS – MCF: 2,476		WATER – BBL: 360		PROD. METHOD: FLOWING	
CHOKE SIZE: 26/64	TBG. PRESS. 0	CSG. PRESS. 1,000	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →		OIL – BBL: 0		GAS – MCF: 2,476		WATER – BBL: 360		INTERVAL STATUS: PROD	

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
WASATCH MESAVERDE	4,144 6,452	6,452			

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) SHEILA UPCHEGO

TITLE SENIOR LAND ADMIN SPECIALIST

SIGNATURE

DATE 6/2/2008

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

NBU 1022-13M2CS

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TRUE Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100	
0	0	0	0	0	0	0	0	0	0	Surf Gyro
100	1.5	331.27	99.99	1.15	-0.63	1.15	1.31	331.27	1.5	Surf Gyro
200	1.75	329.19	199.95	3.61	-2.04	3.61	4.14	330.5	0.26	Surf Gyro
300	1.75	337.12	299.9	6.33	-3.42	6.33	7.19	331.63	0.24	Surf Gyro
400	2	337.04	399.85	9.34	-4.69	9.34	10.45	333.33	0.25	Surf Gyro
500	2	336.96	499.79	12.55	-6.05	12.55	13.94	334.25	0	Surf Gyro
600	1.75	332.89	599.73	15.52	-7.43	15.52	17.2	334.4	0.28	Surf Gyro
700	1.5	346.82	699.69	18.15	-8.43	18.15	20.01	335.09	0.47	Surf Gyro
800	1.25	359.74	799.67	20.51	-8.73	20.51	22.3	336.95	0.4	Surf Gyro
900	1.75	7.66	899.63	23.12	-8.53	23.12	24.64	339.74	0.54	Surf Gyro
1000	1.75	17.59	999.58	26.09	-7.87	26.09	27.25	343.22	0.3	Surf Gyro
1100	1.75	25.52	1099.54	28.92	-6.75	28.92	29.7	346.87	0.24	Surf Gyro
1200	1.25	25.45	1199.5	31.28	-5.62	31.28	31.79	349.81	0.5	Surf Gyro
1300	1.75	20.37	1299.47	33.7	-4.62	33.7	34.02	352.19	0.52	Surf Gyro
1400	2.25	12.91	1399.41	37.05	-3.65	37.05	37.22	354.37	0.56	Surf Gyro
1500	2.25	11.83	1499.33	40.88	-2.81	40.88	40.98	356.07	0.04	Surf Gyro
1600	1.75	12.76	1599.27	44.29	-2.07	44.29	44.34	357.32	0.5	Surf Gyro
1700	0.75	13.7	1699.24	46.42	-1.58	46.42	46.44	358.05	1	Surf Gyro
1800	0.25	24.62	1799.24	47.25	-1.33	47.25	47.27	358.39	0.51	Surf Gyro
1900	0	0	1899.24	47.45	-1.24	47.45	47.46	358.5	0.25	Surf Gyro
1970	0.25	187.37	1969.24	47.3	-1.26	47.3	47.31	358.47	0.36	Surf Gyro

MD	Inc	Azi	TVD	N/S	E/W	Vs	Dleg	Build	Turn	
2,168	0.69	188.93	2,167.99	45.694	-1.5	-27.951	0.222	0.222	0.788	MWD
2,231	2.56	202.18	2,230.97	44.016	-2.091	-26.428	3.008	2.968	21.032	MWD
2,294	5.56	213.3	2,293.80	40.161	-4.298	-22.271	4.901	4.762	17.651	MWD
2,357	6.63	218.43	2,356.44	34.761	-8.234	-15.796	1.904	1.698	8.143	MWD
2,420	8.06	224.93	2,418.93	28.785	-13.614	-7.842	2.622	2.27	10.317	MWD
2,484	10.13	228.55	2,482.12	21.882	-21.002	2.25	3.354	3.234	5.656	MWD
2,547	11.75	225.8	2,543.97	13.742	-29.754	14.182	2.701	2.571	-4.365	MWD
2,610	13.44	226.93	2,605.45	4.269	-39.702	27.885	2.711	2.683	1.794	MWD
2,673	15.06	225.55	2,666.51	-6.463	-50.894	43.349	2.627	2.571	-2.19	MWD
2,736	15.94	228.55	2,727.22	-17.921	-63.222	60.151	1.889	1.397	4.762	MWD
2,799	16.94	228.93	2,787.65	-29.678	-76.626	77.972	1.596	1.587	0.603	MWD
2,863	17.13	227.08	2,848.84	-42.222	-90.557	96.702	0.897	0.297	-2.891	MWD
2,926	17.81	230.93	2,908.94	-54.613	-104.832	115.599	2.128	1.079	6.111	MWD
2,989	18.69	228.68	2,968.77	-67.351	-119.894	135.324	1.789	1.397	-3.571	MWD
3,052	20.06	228.68	3,028.20	-81.15	-135.59	156.214	2.175	2.175	0	MWD
3,116	21.94	228.3	3,087.94	-96.352	-152.762	179.135	2.945	2.937	-0.594	MWD
3,179	23.94	227.05	3,145.96	-112.893	-170.908	203.659	3.267	3.175	-1.984	MWD
3,243	24.69	227.18	3,204.28	-130.826	-190.217	229.967	1.175	1.172	0.203	MWD
3,305	24.00	226.43	3,260.77	-148.318	-208.85	255.473	1.219	-1.113	-1.21	MWD
3,368	25.31	226.3	3,318.02	-166.453	-227.87	281.687	2.081	2.079	-0.206	MWD
3,432	25.88	225.43	3,375.74	-185.707	-247.711	309.247	1.067	0.891	-1.359	MWD
3,495	27.94	226.3	3,431.92	-205.556	-268.179	337.668	3.329	3.27	1.381	MWD
3,558	29.69	229.8	3,487.12	-225.826	-290.77	367.995	3.857	2.778	5.556	MWD
3,621	29.88	231.43	3,541.80	-245.681	-314.956	399.287	1.32	0.302	2.587	MWD
3,684	28.25	230.05	3,596.86	-265.04	-338.657	429.889	2.797	-2.587	-2.19	MWD
3,748	27.50	226.8	3,653.44	-284.882	-361.041	459.783	2.647	-1.172	-5.078	MWD
3,811	30.13	228.18	3,708.64	-305.386	-383.432	490.105	4.306	4.175	2.19	MWD
3,874	30.94	227.8	3,762.90	-326.808	-407.214	522.083	1.322	1.286	-0.603	MWD

3,938	29.31	226.05	3,818.25	-348.734	-430.682	554.141	2.893	-2.547	-2.734 MWD
4,001	29.06	225.68	3,873.25	-370.126	-452.731	584.764	0.489	-0.397	-0.587 MWD
4,064	28.94	227.43	3,928.36	-391.128	-474.903	615.234	1.36	-0.19	2.778 MWD
4,127	28.75	228.55	3,983.54	-411.469	-497.485	645.599	0.909	-0.302	1.778 MWD
4,191	28.38	228.55	4,039.75	-431.726	-520.422	676.184	0.578	-0.578	0 MWD
4,254	27.25	228.3	4,095.47	-451.233	-542.414	705.563	1.803	-1.794	-0.397 MWD
4,317	26.44	227.43	4,151.68	-470.316	-563.513	733.983	1.429	-1.286	-1.381 MWD
4,380	25.69	227.43	4,208.27	-489.042	-583.899	761.626	1.19	-1.19	0 MWD
4,444	25.13	226.8	4,266.08	-507.73	-604.021	789.042	0.972	-0.875	-0.984 MWD
4,506	24.13	226.18	4,322.44	-525.517	-622.762	814.819	1.666	-1.613	-1 MWD
4,569	23.88	229.68	4,379.99	-542.685	-641.777	840.414	2.294	-0.397	5.556 MWD
4,632	23.19	229.93	4,437.75	-558.921	-660.992	865.568	1.107	-1.095	0.397 MWD
4,695	22.63	230.43	4,495.78	-574.627	-679.828	890.093	0.941	-0.889	0.794 MWD
4,759	22.00	229.8	4,554.99	-590.208	-698.476	914.393	1.053	-0.984	-0.984 MWD
4,822	21.50	227.68	4,613.51	-605.598	-716.025	937.724	1.478	-0.794	-3.365 MWD
4,885	20.75	226.68	4,672.27	-621.028	-732.681	960.392	1.321	-1.19	-1.587 MWD
4,949	20.44	226.43	4,732.18	-636.508	-749.026	982.853	0.503	-0.484	-0.391 MWD
5,012	19.81	229.3	4,791.34	-651.052	-765.09	1,004.50	1.859	-1	4.556 MWD
5,076	19.56	229.43	4,851.60	-665.092	-781.45	1,026.06	0.397	-0.391	0.203 MWD
5,139	18.13	230.43	4,911.22	-678.196	-797.018	1,046.40	2.327	-2.27	1.587 MWD
5,202	17.69	229.8	4,971.16	-690.618	-811.885	1,065.78	0.763	-0.698	-1 MWD
5,266	17.38	229.8	5,032.19	-703.064	-826.612	1,085.06	0.484	-0.484	0 MWD
5,329	16.25	228.93	5,092.50	-714.929	-840.445	1,103.28	1.838	-1.794	-1.381 MWD
5,392	14.94	228.55	5,153.18	-726.096	-853.178	1,120.21	2.086	-2.079	-0.603 MWD
5,456	14.31	227.93	5,215.10	-736.857	-865.233	1,136.36	1.014	-0.984	-0.969 MWD
5,519	13.75	227.8	5,276.22	-747.103	-876.559	1,151.61	0.89	-0.889	-0.206 MWD
5,582	13.45	226.79	5,337.46	-757.149	-887.446	1,166.40	0.607	-0.476	-1.603 MWD
5,646	13.31	227.43	5,399.72	-767.229	-898.296	1,181.19	0.318	-0.219	1 MWD
5,709	11.94	225.55	5,461.19	-776.699	-908.29	1,194.93	2.27	-2.175	-2.984 MWD
5,772	10.38	231.3	5,523.00	-784.812	-917.372	1,207.10	3.039	-2.476	9.127 MWD
5,836	10.25	232.18	5,585.97	-791.908	-926.37	1,218.55	0.319	-0.203	1.375 MWD
5,899	9.19	232.68	5,648.06	-798.396	-934.799	1,229.18	1.688	-1.683	0.794 MWD
5,962	8.56	234.8	5,710.31	-804.148	-942.631	1,238.88	1.127	-1	3.365 MWD
6,025	7.38	235.3	5,772.70	-809.155	-949.789	1,247.59	1.876	-1.873	0.794 MWD
6,088	5.75	234.05	5,835.28	-813.311	-955.671	1,254.77	2.597	-2.587	-1.984 MWD
6,152	5.38	232.05	5,898.98	-817.038	-960.632	1,260.97	0.653	-0.578	-3.125 MWD
6,214	4.69	240.43	5,960.74	-820.077	-965.129	1,266.37	1.624	-1.113	13.516 MWD
6,278	3.5	242.05	6,024.58	-822.284	-969.13	1,270.86	1.868	-1.859	2.531 MWD
6,341	3.06	237.18	6,087.48	-824.096	-972.242	1,274.42	0.826	-0.698	-7.73 MWD
6,404	2.25	237.93	6,150.41	-825.664	-974.703	1,277.31	1.287	-1.286	1.19 MWD
6,468	1.06	260.96	6,214.38	-826.424	-976.352	1,279.07	2.094	-1.859	35.984 MWD
6,531	1.06	280.68	6,277.37	-826.408	-977.5	1,279.94	0.576	0	31.302 MWD
6,594	0.88	260.8	6,340.36	-826.377	-978.551	1,280.73	0.601	-0.286	-31.556 MWD
6,658	0.81	230.43	6,404.35	-826.744	-979.385	1,281.61	0.7	-0.109	-47.453 MWD
Last Survey Depth Recorded									
6,658	0.81	230.43	6,404.35	-826.744	-979.385	1,281.61	0.7	-0.109	-47.453 MWD

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TRUE Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100	
6700	0.5	196.29	6446.35	-827.11	-979.67	1280.07	1282.13	229.83	1.16	Btm Gyro
6800	0.25	256.4	6546.35	-827.58	-980	1280.64	1282.69	229.82	0.43	Btm Gyro
6900	0.75	181.51	6646.34	-828.28	-980.23	1281.29	1283.32	229.8	0.73	Btm Gyro
7000	1.25	151.61	6746.33	-829.89	-979.73	1282.03	1283.98	229.73	0.71	Btm Gyro
7100	1.25	151.72	6846.3	-831.81	-978.7	1282.6	1284.43	229.64	0	Btm Gyro
7200	1.5	150.83	6946.27	-833.92	-977.54	1283.21	1284.92	229.53	0.25	Btm Gyro
7300	1.75	155.46	7046.23	-836.45	-976.27	1284.03	1285.59	229.41	0.28	Btm Gyro
7400	1.25	138.58	7146.2	-838.66	-974.91	1284.56	1286	229.3	0.66	Btm Gyro
7500	1.25	142.69	7246.18	-840.34	-973.53	1284.71	1286.06	229.2	0.09	Btm Gyro
7600	1	150.79	7346.16	-841.97	-972.44	1285.04	1286.3	229.11	0.3	Btm Gyro
7700	1.5	157.89	7446.13	-843.95	-971.53	1285.73	1286.9	229.02	0.52	Btm Gyro
7800	1.75	154	7546.09	-846.53	-970.36	1286.66	1287.72	228.9	0.27	Btm Gyro
7900	1.25	128.12	7646.06	-848.58	-968.84	1286.96	1287.92	228.79	0.83	Btm Gyro
8000	1.75	133.22	7746.02	-850.3	-966.87	1286.71	1287.57	228.67	0.52	Btm Gyro
8100	1.75	114.34	7845.98	-851.97	-964.36	1286.04	1286.8	228.54	0.57	Btm Gyro
8200	1.5	128.49	7945.94	-853.41	-961.95	1285.28	1285.95	228.42	0.47	Btm Gyro
8300	1.75	128.7	8045.9	-855.18	-959.73	1284.89	1285.47	228.3	0.25	Btm Gyro
8365	1.75	116.91	8110.87	-856.25	-958.07	1284.42	1284.94	228.21	0.55	Btm Gyro

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: STUO-08512-ST
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 1022-13M2CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1552 FSL 1289 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 13 Township: 10.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047394880000
PHONE NUMBER: 720 929-6514		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 3/23/2012 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The operator requests authorization to recomplete the subject well. The operator requests approval to recomplete the Wasatch formation. The operator will commingle the Wasatch and the Mesaverde formations. Please see the attached procedure. Thank you.		
NAME (PLEASE PRINT) Jaime Scharnowske		PHONE NUMBER 720 929-6304
SIGNATURE N/A		TITLE Regulatory Analyst
DATE 3/23/2012		APPROVED BY: <div style="text-align: center;"> Approved by the Utah Division of Oil, Gas and Mining Date: March 29, 2012 By: </div>

Greater Natural Buttes Unit



NBU 1022-13M2CS **RE-COMPLETIONS PROCEDURE**

DATE: 03/20/2012
AFE#:
API#: 4304739488
USER ID: WIU473 (Frac Invoices Only)

COMPLETIONS ENGINEER: Patricia Cuba, Denver, CO
(720) 929-6348 (Office)
(303) 601-7259 (Cell)

SIGNATURE:

ENGINEERING MANAGER: JEFF DUFRESNE

SIGNATURE:

REMEMBER SAFETY FIRST!

Name: **NBU 1022-13M2CS**
Location: **SW NW SW SW Sec 13 T10S R22E**
LAT: 39.945911 **LONG: -109.393019** **COORDINATE: NAD83 (Surface Location)**
Uintah County, UT
Date: **03/20/2012**

ELEVATIONS: 5287' GL 5306' KB *Frac Registry TVD: 8241'*

TOTAL DEPTH: 8495' **PBTD:** 8450'
SURFACE CASING: 9 5/8", 36# J-55 LT&C @ 104'
9 5/8", 32# H-40 LT&C @ 104-1729'
9 5/8", 36# J-55 LT&C @ 1729-2150'
PRODUCTION CASING: 4 1/2", 11.6#, I-80 LT&C @ 8495'
Marker Joint **3910'-3930'**

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl/ft)	(gal/ft)
2 3/8" 4.7# J-55 tbg	7,700	8,100	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

TOPS:

1034' Green River Top
1284' Bird's Nest Top
1676' Mahogany Top
4144' Wasatch Top
6423' Mesaverde Top
*Based on latest geological interpretation

BOTTOMS:

6423' Wasatch Bottom
8495' Mesaverde Bottom (TD)

T.O.C. @ 310' from Cutters CBL 03/15/2008

Hydraulic Isolation @ 930'

**Based on latest interpretation of CBL

GENERAL:

- A minimum of **6** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Bakers Induction-Density-Neutron log dated 12/20/2007
- **3** fracturing stages required for coverage.
- Procedure calls for **4** CBP's (**8000** psi) .
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Pump scale inhibitor at 3 gpt (in pad and until 1.25 ppg ramp up is reached) and 10 gpt in all flushes except the final stage. Remember to pre-load the casing with scale inhibitor for the very first stage with 10 gpt.
- 30/50 mesh Ottawa sand, **Slickwater frac.**

- Maximum surface pressure **6200** psi.
- **If casing pressure test fails. MIRU with tubing and packer. Isolate leak by pressure testing above and below the packer. RIH and set appropriate casing leak remediation (specific details on remediation will be provided in post-job-report). Re-pressure test to 1000 and 3500 psi for 15 minutes each and to 6200 psi for 30 minutes.**
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- **Call flush at 0 PPG @ inline densimeters. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.**
- **If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing - over flush stage by 5 bbls (from top perf)**
- Tubing Currently Landed @~8298'
- Originally completed on 04/23/2008

Existing Perforations:

PERFORATIONS							
Formation	Zone	Top	Btm	spf	Shots	Date	Reason
MESA VERDE		6456	6466	4	40	04/21/2008	PRODUCTION
MESA VERDE		6638	6644	4	24	04/21/2008	PRODUCTION
MESA VERDE		6658	6662	4	16	04/21/2008	PRODUCTION
MESA VERDE		6789	6794	4	20	04/21/2008	PRODUCTION
MESA VERDE		6826	6831	4	20	04/21/2008	PRODUCTION
MESA VERDE		7026	7034	3	24	04/21/2008	PRODUCTION
MESA VERDE		7056	7060	4	16	04/21/2008	PRODUCTION
MESA VERDE		7165	7168	4	12	04/21/2008	PRODUCTION
MESA VERDE		7215	7222	4	28	04/21/2008	PRODUCTION
MESA VERDE		7365	7368	3	9	04/21/2008	PRODUCTION
MESA VERDE		7426	7430	4	16	04/21/2008	PRODUCTION
MESA VERDE		7493	7498	4	20	04/21/2008	PRODUCTION
MESA VERDE		7817	7820	3	9	04/21/2008	PRODUCTION
MESA VERDE		7938	7942	3	12	04/21/2008	PRODUCTION
MESA VERDE		8003	8008	4	20	04/21/2008	PRODUCTION
MESA VERDE		8157	8160	4	12	04/21/2008	PRODUCTION
MESA VERDE		8193	8200	4	28	04/21/2008	PRODUCTION
MESA VERDE		8371	8374	4	12	04/21/2008	PRODUCTION
MESA VERDE		8430	8437	4	28	04/21/2008	PRODUCTION

Relevant History:

04/23/2008: Originally completed with 9 frac stages of Upper Mesaverde with 644,868 gal of Slickwater and 504,571 lbs of 30/50 Ottawa sand and ~ 44,847 lbs of 30/50 resin coated sand.

03/14/2011: Slickline Report:

Travel to location rig up went in with jdc stacked out at 8143 beat down latch on plunger came out had a viper plunger went back in latch on spring hit oil jars 3 broke loose came out had a standard spring put on bailer run T.D stacked out at 8298 beat down came out bailer had some sand scratch and brouch tubing had some scale and sand came out 1.90 brouch was clean plunger was good standard spring had some scale clean spring drop standard spring and a new viper plunger chase to bottom came out rig down travel to next location.

FLUID LEVEL7800SEAT NIPPLE DEPTH8143
SN TYPEXTD (Max Depth)8298'

JOB DETAILS

SPRING AND/OR PRODUCTION TOOL DETAIL

Spring OutUsed-StandardSpring InUsed-Standard
Stuck SpringYes, stuck but able to latch onCorrosion on SpringNo
Bailed AcidNo
Broken SpringNoScale on SpringYes
Production ToolsNoneDepth of Tool
Other HardwareNone

PLUNGER DETAIL

Stuck PlungerYes, stuck but able to latch onCorrosion on PlungerNo
Broken PlungerNoScale on PlungerNo

SOLIDS DETAIL

Tight SpotsNoneSeverity of TrashLight
Solid sample to turn inYesSolid Sample SourceTubing
Speculated Type of SolidIron SulfideSpeculated Depth of Solid

LOST SLICKLINE TOOLS

Slickline Tools LostNoDepth of Tool

H2S History:

Production Date	Gas (avg mcf/day)	Water (avg bbl/day)	Oil (avg bbl/day)	LGR (bbl/Mmcf)	Max H2S Seperator (ppm)
4/30/2008	0.00	0.00	0.00	#NA	
5/31/2008	1581.55	429.68	0.00	271.68	
6/30/2008	1838.43	251.20	28.67	152.23	
7/31/2008	839.42	38.87	13.97	62.95	
8/31/2008	1186.29	38.87	14.81	45.25	
9/30/2008	1044.43	38.87	16.57	53.08	
10/31/2008	897.23	44.16	2.71	52.24	
11/30/2008	748.77	64.63	2.23	89.30	
12/31/2008	688.32	60.77	1.94	91.11	
1/31/2009	671.58	48.52	3.26	77.09	
2/28/2009	590.68	43.25	3.29	78.78	
3/31/2009	626.42	47.71	3.35	81.52	20.00
4/30/2009	567.87	45.70	2.83	85.47	56.00
5/31/2009	527.03	58.19	0.03	110.48	50.00
6/30/2009	501.83	46.17	0.00	92.00	12.00
7/31/2009	421.55	46.16	0.00	109.50	26.00
8/31/2009	436.77	35.68	0.00	81.68	7.00
9/30/2009	437.17	32.47	0.00	74.27	10.00
10/31/2009	394.68	43.26	0.00	109.60	138.00
11/30/2009	405.07	144.07	0.00	355.66	35.00
12/31/2009	357.81	41.94	0.00	117.20	54.00
1/31/2010	371.35	82.29	0.00	221.59	55.00
2/28/2010	367.61	32.75	0.00	89.09	88.00
4/30/2010	323.70	16.70	0.00	51.59	90.00
5/31/2010	324.03	15.26	0.00	47.09	2.00
6/30/2010	371.93	20.17	0.00	54.22	50.00
7/31/2010	349.94	17.42	0.00	49.78	60.00
8/31/2010	275.87	7.35	0.00	26.66	38.00
9/30/2010	257.97	9.10	0.00	35.28	38.00
10/31/2010	347.00	22.13	0.00	63.77	62.00
11/30/2010	298.03	21.30	0.00	71.47	
12/31/2010	286.81	21.03	0.00	73.33	66.00
1/31/2011	247.52	18.97	0.00	76.63	115.00
2/28/2011	283.93	21.32	0.00	75.09	
3/31/2011	249.71	21.32	0.00	85.39	43.00
4/30/2011	244.43	20.83	0.00	85.23	92.00
5/31/2011	239.23	19.26	0.00	80.50	42.00
6/30/2011	264.80	36.00	0.00	135.95	44.00
7/31/2011	245.42	26.71	4.45	126.97	40.00
8/31/2011	238.13	12.87	8.77	90.90	43.00
9/30/2011	218.77	12.53	7.63	92.18	48.00
10/31/2011	227.45	13.00	8.71	95.45	136.00
11/30/2011	183.87	10.23	7.23	95.00	57.00
12/31/2011	177.58	12.13	7.61	111.17	115.00
1/31/2012	164.81	11.00	6.58	106.67	118.00
2/29/2012	190.03	12.97	8.62	113.59	109.00

PROCEDURE: (If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work.)

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.
2. The tubing is below the proposed CBP depth, TOO H with 2-3/8", 4.7#, J-55 (or N-80) tubing (currently landed at ~8298'). Visually inspect for scale and consider replacing if needed.
3. If tbg looks ok consider running a gauge ring to 6415' (50' below proposed CBP). Otherwise P/U a mill and C/O to 6415' (50' below proposed CBP).
4. Set 8000 psi CBP at ~ 6365'. ND BOPs and NU frac valves. Test frac valves and casing to 1000 and 3500 psi for 15 minutes each and to 6200 psi for 30 minutes; if pressure test fails contact Denver engineer and see notes. As per standard operating procedure install steel blowdown line to reserve pit from 4-1/2" X 9-5/8" annulus. Lock **OPEN** the Braden head valve. Annulus will be monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.
5. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	6300	6305	3	15
WASATCH	6312	6315	3	9
6. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~6300' and trickle 250gal 15%HCL w/ scale inhibitor in flush .
7. Set 8000 psi CBP at ~5989'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	5778	5779	3	3
WASATCH	5794	5796	3	6
WASATCH	5955	5959	3	12
8. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~5778' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
9. Set 8000 psi CBP at ~5656'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	5424	5426	3	6
WASATCH	5493	5495	3	6
WASATCH	5623	5626	3	9
10. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~5424' and flush only with recycled water.
11. Set 8000 psi CBP at~5374'.

12. ND Frac Valves, NU and Test BOPs.
13. TIH with 3 7/8" mill, pump open sub, XN nipple and tubing.
14. Mill 3 plugs and clean out to a depth of 6335'.
15. Land tubing at 6270', drop ball and pump open sub. Flow back completion load. RDMO
16. MIRU, POOH tbg and mill. TIH with POBS and mill.
17. Mill last plug @ 6365' clean out to PBSD at 8450'. Land tubing at ±8298' pump off bit and bit sub. **This well WILL be commingled at this time.**
18. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.
19. **Leave surface casing valve open.** Monitor and report any flow from surface casing. RDMO

For design questions, please call
Patricia Cuba, Denver, CO
(720) 929-6348 (Office)
(303) 601-7259 (Cell)

For field implementation questions, please call
Jeff Samuels, Vernal, UT
(435)-781-7046 (Office)

NOTES:

- **If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work**
- **Verify that the Braden head valve is locked OPEN.**

Service Company Supplied Chemicals - Job Totals

Friction Reducer	48	gals @	0.5	GPT
Surfactant	95	gals @	1.0	GPT
Clay Stabilizer	48	gals @	0.5	GPT
15% Hcl	750	gals @	250	gal/stg
Iron Control for acid	4	gals @	5.0	GPT of acid
Surfactant for acid	2	gals @	2.0	GPT of acid
Corrosion Inhibitor for acid	3	gals @	4.0	GPT of acid

Third Party Supplied Chemicals Job Totals - Include Pumping Charge if Applicable

Scale Inhibitor	277	gals pumped per schedule above	
Biocide	29	gals @	0.3 GPT

Fracturing Schedules										Casing Size		4.5		Swabbing Days										3										Enter Number of swabbing days here for recompletes											
Name NBU 1022-13M2CS										Recompleter?		Y		Y		Production Log										0										Enter # if running a Production Log									
Slickwater Frac										Pad?		Y		Y		DFT										0										Enter Number of DFTs									
Sage		Zone		Perfs		Rate		Fluid		Initial		Final		Fluid		Volume		Cum Vol		Volume		Cum Vol		Fluid		Sand		Sand		Cum. Sand		Footage from		Scale Inhib.,											
				Top, ft.		Bot., ft		SPF		Holes		BPM		Type		ppg		ppg		gals		BBLs		BBLs		% of frac		lbs		lbs sand/mc-ft		gal.													
1		WASATCH		6300		6305		3		15		Varied		Pre-Pad & Pump-in test						98		98		98		0.0%		0				39													
		WASATCH		6312		6315		3		9		50 Slickwater Pad		0 ISIP and 5 min ISIP						189		91		189		37.3%		7,974		0		11													
		WASATCH										50 Slickwater Ramp		50 Slickwater Pad		1				304		304		705		13,397		21,371		7,974		38													
		WASATCH										50 Slickwater Ramp		50 Slickwater Ramp		2				213		213		803		19,098		30,466		11,368		55													
		WASATCH										50 Flush (4-12)		ISDP and 5 min ISDP						98		98		950		30,466		30,466		0		0													
		WASATCH																		84		84		950		30,466		30,466		0		0													
		WASATCH																		39,918		39,918		950		30,466		30,466		0		0													
		WASATCH																		36,377		36,377		5424		15,913		15,913		50		71													
		WASATCH																																											
2		WASATCH		5778		5779		3		24		16.1		<< Above pump time (min)						0		0		0		0.0%		0				10													
		WASATCH		5794		5796		3		6		3 Varied		Pump-in test						76		76		76		37.3%		6,634		0		32													
		WASATCH		5955		5959		3		12		50 Slickwater Pad		0 ISIP and 5 min ISIP						253		253		505		11,145		17,779		17,779		0													
		WASATCH												50 Slickwater Ramp		1				177		177		595		17,779		17,779		0		0													
		WASATCH												50 Flush (4-12)		1				90		90										0													
		WASATCH												ISDP and 5 min ISDP						25,000		25,000		595		17,779		17,779		0		0													
		WASATCH																		25,000		25,000		595								0													
		WASATCH																		21,228		21,228		5778		91,936		76,997		122		37													
		WASATCH																														78													
3		WASATCH		5424		5426		3		21		11.9		<< Above pump time (min)						0		0		0		0.0%		0				16													
		WASATCH		5483		5495		3		6		3 Varied		Pump-in test						130		130		130		37.3%		11,368		0		55													
		WASATCH		5623		5626		3		9		50 Slickwater Pad		0 ISIP and 5 min ISIP						433		433		866		19,098		30,466		30,466		0													
		WASATCH												50 Slickwater Ramp		1				303		303		950		30,466		30,466		0		0													
		WASATCH												50 Flush (4-12)		2				84		84										0													
		WASATCH												ISDP and 5 min ISDP						84		84		950		30,466		30,466		0		0													
		WASATCH																		39,918		39,918		950		30,466		30,466		0		0													
		WASATCH																		36,377		36,377		5424		19,000		15,913		50		71													
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH																																											
		WASATCH				</																																							

Name NBU 1022-13M2CS
 Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes		Fracture Coverage		
		Top, ft	Bottom, ft						
1	WASATCH	6300	6305	3	15		6287	to	6332.5
	WASATCH	6312	6315	3	9		6287	to	6332.5
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	# of Perfs/stage				24		CBP DEPTH	5,989	
2	WASATCH	5778	5779	3	3		5774.5	to	5782.5
	WASATCH	5794	5796	3	6		5787	to	5801.5
	WASATCH	5955	5959	3	12		5940	to	5962.5
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	# of Perfs/stage				21		CBP DEPTH	5,656	
3	WASATCH	5424	5426	3	6		5415.5	to	5445
	WASATCH	5493	5495	3	6		5488.5	to	5502.5
	WASATCH	5623	5626	3	9		5621	to	5627.5
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	# of Perfs/stage				21		CBP DEPTH	5,374	
	Totals				66				

NBU 1022-13M2CS										
Measured	Incl	Drift	TRUE	N-S	E-W	Vertical	CLOSURE	CLOSURE	Dogleg	
Depth	Angle	Direction	Vertical	FT	FT	Section	Distance	Direction	Severity	
FT	Deg	Deg	Depth			FT	FT	Deg	Deg/100	
0	0	0	0	0	0	0	0	0	0	Surf Gyro
100	1.5	331.27	99.99	1.15	-0.63	1.15	1.31	331.27	1.5	Surf Gyro
200	1.75	329.19	199.95	3.61	-2.04	3.61	4.14	330.5	0.26	Surf Gyro
300	1.75	337.12	299.9	6.33	-3.42	6.33	7.19	331.63	0.24	Surf Gyro
400	2	337.04	399.85	9.34	-4.69	9.34	10.45	333.33	0.25	Surf Gyro
500	2	336.96	499.79	12.55	-6.05	12.55	13.94	334.25	0	Surf Gyro
600	1.75	332.89	599.73	15.52	-7.43	15.52	17.2	334.4	0.28	Surf Gyro
700	1.5	346.82	699.69	18.15	-8.43	18.15	20.01	335.09	0.47	Surf Gyro
800	1.25	359.74	799.67	20.51	-8.73	20.51	22.3	336.95	0.4	Surf Gyro
900	1.75	7.66	899.63	23.12	-8.53	23.12	24.64	339.74	0.54	Surf Gyro
1000	1.75	17.59	999.58	26.09	-7.87	26.09	27.25	343.22	0.3	Surf Gyro
1100	1.75	25.52	1099.54	28.92	-6.75	28.92	29.7	346.87	0.24	Surf Gyro
1200	1.25	25.45	1199.5	31.28	-5.62	31.28	31.79	349.81	0.5	Surf Gyro
1300	1.75	20.37	1299.47	33.7	-4.62	33.7	34.02	352.19	0.52	Surf Gyro
1400	2.25	12.91	1399.41	37.05	-3.65	37.05	37.22	354.37	0.56	Surf Gyro
1500	2.25	11.83	1499.33	40.88	-2.81	40.88	40.98	356.07	0.04	Surf Gyro
1600	1.75	12.76	1599.27	44.29	-2.07	44.29	44.34	357.32	0.5	Surf Gyro
1700	0.75	13.7	1699.24	46.42	-1.58	46.42	46.44	358.05	1	Surf Gyro
1800	0.25	24.62	1799.24	47.25	-1.33	47.25	47.27	358.39	0.51	Surf Gyro
1900	0	0	1899.24	47.45	-1.24	47.45	47.46	358.5	0.25	Surf Gyro
1970	0.25	187.37	1969.24	47.3	-1.26	47.3	47.31	358.47	0.36	Surf Gyro
MD	Inc	Azi	TVD	N/S	E/W	Vs	Dleg	Build	Turn	
2,168	0.69	188.93	2,167.99	45.694	-1.5	-27.951	0.222	0.222	0.788	MWD
2,231	2.56	202.18	2,230.97	44.016	-2.091	-26.428	3.008	2.968	21.032	MWD
2,294	5.56	213.3	2,293.80	40.161	-4.298	-22.271	4.901	4.762	17.651	MWD
2,357	6.63	218.43	2,356.44	34.761	-8.234	-15.796	1.904	1.698	8.143	MWD
2,420	8.06	224.93	2,418.93	28.785	-13.614	-7.842	2.622	2.27	10.317	MWD
2,484	10.13	228.55	2,482.12	21.882	-21.002	2.25	3.354	3.234	5.656	MWD
2,547	11.75	225.8	2,543.97	13.742	-29.754	14.182	2.701	2.571	-4.365	MWD
2,610	13.44	226.93	2,605.45	4.269	-39.702	27.885	2.711	2.683	1.794	MWD
2,673	15.06	225.55	2,666.51	-6.463	-50.894	43.349	2.627	2.571	-2.19	MWD
2,736	15.94	228.55	2,727.22	-17.921	-63.222	60.151	1.889	1.397	4.762	MWD
2,799	16.94	228.93	2,787.65	-29.678	-76.626	77.972	1.596	1.587	0.603	MWD
2,863	17.13	227.08	2,848.84	-42.222	-90.557	96.702	0.897	0.297	-2.891	MWD
2,926	17.81	230.93	2,908.94	-54.613	-104.832	115.599	2.128	1.079	6.111	MWD
2,989	18.69	228.68	2,968.77	-67.351	-119.894	135.324	1.789	1.397	-3.571	MWD
3,052	20.06	228.68	3,028.20	-81.15	-135.59	156.214	2.175	2.175	0	MWD
3,116	21.94	228.3	3,087.94	-96.352	-152.762	179.135	2.945	2.937	-0.594	MWD
3,179	23.94	227.05	3,145.96	-112.893	-170.908	203.659	3.267	3.175	-1.984	MWD
3,243	24.69	227.18	3,204.28	-130.826	-190.217	229.967	1.175	1.172	0.203	MWD
3,305	24.00	226.43	3,260.77	-148.318	-208.85	255.473	1.219	-1.113	-1.21	MWD
3,368	25.31	226.3	3,318.02	-166.453	-227.87	281.687	2.081	2.079	-0.206	MWD
3,432	25.88	225.43	3,375.74	-185.707	-247.711	309.247	1.067	0.891	-1.359	MWD
3,495	27.94	226.3	3,431.92	-205.556	-268.179	337.668	3.329	3.27	1.381	MWD
3,558	29.69	229.8	3,487.12	-225.826	-290.77	367.995	3.857	2.778	5.556	MWD
3,621	29.88	231.43	3,541.80	-245.681	-314.956	399.287	1.32	0.302	2.587	MWD
3,684	28.25	230.05	3,596.86	-265.04	-338.657	429.889	2.797	-2.587	-2.19	MWD
3,748	27.50	226.8	3,653.44	-284.882	-361.041	459.783	2.647	-1.172	-5.078	MWD
3,811	30.13	228.18	3,708.64	-305.386	-383.432	490.105	4.306	4.175	2.19	MWD
3,874	30.94	227.8	3,762.90	-326.808	-407.214	522.083	1.322	1.286	-0.603	MWD
3,938	29.31	226.05	3,818.25	-348.734	-430.682	554.141	2.893	-2.547	-2.734	MWD
4,001	29.06	225.68	3,873.25	-370.126	-452.731	584.764	0.489	-0.397	-0.587	MWD
4,064	28.94	227.43	3,928.36	-391.128	-474.903	615.234	1.36	-0.19	2.778	MWD
4,127	28.75	228.55	3,983.54	-411.469	-497.485	645.599	0.909	-0.302	1.778	MWD
4,191	28.38	228.55	4,039.75	-431.726	-520.422	676.184	0.578	-0.578	0	MWD
4,254	27.25	228.3	4,095.47	-451.233	-542.414	705.563	1.803	-1.794	-0.397	MWD
4,317	26.44	227.43	4,151.68	-470.316	-563.513	733.983	1.429	-1.286	-1.381	MWD
4,380	25.69	227.43	4,208.27	-489.042	-583.899	761.626	1.19	-1.19	0	MWD
4,444	25.13	226.8	4,266.08	-507.73	-604.021	789.042	0.972	-0.875	-0.984	MWD
4,506	24.13	226.18	4,322.44	-525.517	-622.762	814.819	1.666	-1.613	-1	MWD
4,569	23.88	229.68	4,379.99	-542.685	-641.777	840.414	2.294	-0.397	5.556	MWD
4,632	23.19	229.93	4,437.75	-558.921	-660.992	865.568	1.107	-1.095	0.397	MWD
4,695	22.63	230.43	4,495.78	-574.627	-679.828	890.093	0.941	-0.889	0.794	MWD
4,759	22.00	229.8	4,554.99	-590.208	-698.476	914.393	1.053	-0.984	-0.984	MWD
4,822	21.50	227.68	4,613.51	-605.598	-716.025	937.724	1.478	-0.794	-3.365	MWD
4,885	20.75	226.68	4,672.27	-621.028	-732.681	960.392	1.321	-1.19	-1.587	MWD
4,949	20.44	226.43	4,732.18	-636.508	-749.026	982.853	0.503	-0.484	-0.391	MWD
5,012	19.81	229.3	4,791.34	-651.052	-765.09	1,004.50	1.859	-1	4.556	MWD
5,076	19.56	229.43	4,851.60	-665.092	-781.45	1,026.06	0.397	-0.391	0.203	MWD
5,139	18.13	230.43	4,911.22	-678.196	-797.018	1,046.40	2.327	-2.27	1.587	MWD
5,202	17.69	229.8	4,971.16	-690.618	-811.885	1,065.78	0.763	-0.698	-1	MWD
5,266	17.38	229.8	5,032.19	-703.064	-826.612	1,085.06	0.484	-0.484	0	MWD
5,329	16.25	228.93	5,092.50	-714.929	-840.445	1,103.28	1.838	-1.794	-1.381	MWD
5,392	14.94	228.55	5,153.18	-726.096	-853.178	1,120.21	2.086	-2.079	-0.603	MWD
5,456	14.31	227.93	5,215.10	-736.857	-865.233	1,136.36	1.014	-0.984	-0.969	MWD
5,519	13.75	227.8	5,276.22	-747.103	-876.559	1,151.61	0.89	-0.889	-0.206	MWD

5,582	13.45	226.79	5,337.46	-757.149	-887.446	1,166.40	0.607	-0.476	-1.603 MWD
5,646	13.31	227.43	5,399.72	-767.229	-898.296	1,181.19	0.318	-0.219	1 MWD
5,709	11.94	225.55	5,461.19	-776.699	-908.29	1,194.93	2.27	-2.175	-2.984 MWD
5,772	10.38	231.3	5,523.00	-784.812	-917.372	1,207.10	3.039	-2.476	9.127 MWD
5,836	10.25	232.18	5,585.97	-791.908	-926.37	1,218.55	0.319	-0.203	1.375 MWD
5,899	9.19	232.68	5,648.06	-798.396	-934.799	1,229.18	1.688	-1.683	0.794 MWD
5,962	8.56	234.8	5,710.31	-804.148	-942.631	1,238.88	1.127	-1	3.365 MWD
6,025	7.38	235.3	5,772.70	-809.155	-949.789	1,247.59	1.876	-1.873	0.794 MWD
6,088	5.75	234.05	5,835.28	-813.311	-955.671	1,254.77	2.597	-2.587	-1.984 MWD
6,152	5.38	232.05	5,898.98	-817.038	-960.632	1,260.97	0.653	-0.578	-3.125 MWD
6,214	4.69	240.43	5,960.74	-820.077	-965.129	1,266.37	1.624	-1.113	13.516 MWD
6,278	3.5	242.05	6,024.58	-822.284	-969.13	1,270.86	1.868	-1.859	2.531 MWD
6,341	3.06	237.18	6,087.48	-824.096	-972.242	1,274.42	0.826	-0.698	-7.73 MWD
6,404	2.25	237.93	6,150.41	-825.664	-974.703	1,277.31	1.287	-1.286	1.19 MWD
6,468	1.06	260.96	6,214.38	-826.424	-976.352	1,279.07	2.094	-1.859	35.984 MWD
6,531	1.06	280.68	6,277.37	-826.408	-977.5	1,279.94	0.576	0	31.302 MWD
6,594	0.88	260.8	6,340.36	-826.377	-978.551	1,280.73	0.601	-0.286	-31.556 MWD
6,658	0.81	230.43	6,404.35	-826.744	-979.385	1,281.61	0.7	-0.109	-47.453 MWD
Last Survey Depth Recorded									
6,658	0.81	230.43	6,404.35	-826.744	-979.385	1,281.61	0.7	-0.109	-47.453 MWD
Measured	Incl	Drift	TRUE			Vertical	CLOSURE	CLOSURE	Dogleg
Depth	Angle	Direction	Vertical	N-S	E-W	Section	Distance	Direction	Severity
FT	Deg	Deg	Depth	FT	FT	FT	FT	Deg	Deg/100
6700	0.5	196.29	6446.35	-827.11	-979.67	1280.07	1282.13	229.83	1.16 Btm Gyro
6800	0.25	256.4	6546.35	-827.58	-980	1280.64	1282.69	229.82	0.43 Btm Gyro
6900	0.75	181.51	6646.34	-828.28	-980.23	1281.29	1283.32	229.8	0.73 Btm Gyro
7000	1.25	151.61	6746.33	-829.89	-979.73	1282.03	1283.98	229.73	0.71 Btm Gyro
7100	1.25	151.72	6846.3	-831.81	-978.7	1282.6	1284.43	229.64	0 Btm Gyro
7200	1.5	150.83	6946.27	-833.92	-977.54	1283.21	1284.92	229.53	0.25 Btm Gyro
7300	1.75	155.46	7046.23	-836.45	-976.27	1284.03	1285.59	229.41	0.28 Btm Gyro
7400	1.25	138.58	7146.2	-838.66	-974.91	1284.56	1286	229.3	0.66 Btm Gyro
7500	1.25	142.69	7246.18	-840.34	-973.53	1284.71	1286.06	229.2	0.09 Btm Gyro
7600	1	150.79	7346.16	-841.97	-972.44	1285.04	1286.3	229.11	0.3 Btm Gyro
7700	1.5	157.89	7446.13	-843.95	-971.53	1285.73	1286.9	229.02	0.52 Btm Gyro
7800	1.75	154	7546.09	-846.53	-970.36	1286.66	1287.72	228.9	0.27 Btm Gyro
7900	1.25	128.12	7646.06	-848.58	-968.84	1286.96	1287.92	228.79	0.83 Btm Gyro
8000	1.75	133.22	7746.02	-850.3	-966.87	1286.71	1287.57	228.67	0.52 Btm Gyro
8100	1.75	114.34	7845.98	-851.97	-964.36	1286.04	1286.8	228.54	0.57 Btm Gyro
8200	1.5	128.49	7945.94	-853.41	-961.95	1285.28	1285.95	228.42	0.47 Btm Gyro
8300	1.75	128.7	8045.9	-855.18	-959.73	1284.89	1285.47	228.3	0.25 Btm Gyro
8365	1.75	116.91	8110.87	-856.25	-958.07	1284.42	1284.94	228.21	0.55 Btm Gyro

Acid Pickling and H2S Procedures (If Required)

****PROCEDURE FOR PUMPING ACID DOWN TBG**

WHEN FINDING SCALE IN TUBING THAT IS ACID SOLUBLE, ENSURE THAT PLUNGER EQUIPMENT IS REMOVED AND ABLE TO PUMP DOWN TBG. INSTALL A 'T' IN PUMP LINE W/2" VALVE THAT NALCO CAN TIE INTO. HAVE 60 BBLS 2% KCL MIXED W/ 10-15 GAL H2S SCAVENGER IN RIG FLAT TANK. (WE USED THE RIG FLAT TANK FOR MIXING CHEMICAL SO WE DIDN'T HAVE THE CHEMICAL IN ALL FLUIDS ON LOCATION, ONLY WHAT WE NEEDED TO PUMP DOWN HOLE)

1. PUMP 5-10 BBLS 2% KCL DOWN TBG (NALCO CANNOT PUMP AGAINST PRESSURE)
2. NALCO WILL PUMP 3 DRUMS HCL (31%) INTO PUMP LINE.
3. FLUSH BEHIND ACID WITH 10-15 BBL 2% KCL
4. PUMP 2—30 BBL 2% W/ H2S SCAVENGER DOWN TBG.
5. PUMP REMAINDER OF 2% W/ H2S SCAVENGER DOWN CASING AND SHUT WELL IN FOR MINIMUM OF 2 HRS.
6. OVER DISPLACE DOWN TBG AND CSG TO FLUSH ACID AND SCAVENGER INTO FORMATION
7. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

**** PROCEDURE FOR PUMPING H2S SCAVENGER WITHOUT ACID**

PRIOR TO RIG MOVING ON OR AS RIG PULLS ONTO LOCATION. TEST CASING, TUBING AND SEPARATOR FOR H2S. IF FOUND MAKE SURE THAT PLUNGER SYSTEM IS REMOVED (IT IS POSSIBLE TO PUMP AROUND PLUNGERS BUT SOME WILL HAVE A STANDING VALVE IN SEATING NIPPLE).

1. MIX 10-15 GAL H2S SCAVENGER WITH 60-100 BBL 2% KCL IN RIG FLAT TANK.
2. PUMP 25 BBLS MIXTURE DOWN TUBING AND REST DOWN CASING. SHUT WELL IN FOR 2 HOURS.
3. IF WELL HAS PRESSURE AFTER 2 HOURS – RETEST CASING AND TUBING FOR H2S.
4. FLUSH TUBING AND CASING PUSHING H2S SCAVENGER INTO FORMATION.
5. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

** As per APC standard operating procedure, APC foreman will verify ALL volumes pumped and record on APC Volume Report Form

Key Contact information

Completion Engineer

Patricia Cuba: 303/601-7259, 720/929-6348

Production Engineer

Ben Smiley: 435/781-7010, 936/524-4231

Brad Laney: 435/781-7031, 435/828-5469

Jordan Portillo: 435/781-9785, 435/828-6221

Laura M. Wellman: 435/781-9748, 435/322-0118

Completion Supervisor Foreman

Jeff Samuels: 435-828-6515, 435-781-7046

Completion Manager

Jeff Dufresne: 720-929-6281, 303-241-8428

Vernal Main Office

435-789-3342

Emergency Contact Information—Call 911

Vernal Regional Hospital Emergency: 435-789-3342

Police: (435) 789-5835

Fire: 435-789-4222

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: STUO-08512 ST	
b. TYPE OF WORK: NEW WELL <input type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input checked="" type="checkbox"/> OTHER RECOMPLETION		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME UTU63047A	
3. ADDRESS OF OPERATOR: P.O.BOX 173779 CITY DENVER STATE CO ZIP 80217		8. WELL NAME and NUMBER: NBU 1022-13M2CS	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: NWSW 1552 FSL 1289 FWL S13,T10S,R22E AT TOP PRODUCING INTERVAL REPORTED BELOW: SWSW 815 FSL 424 FWL S13,T10S,R22E AT TOTAL DEPTH: SWSW 696 FSL 331 FWL S13,T10S,R22E		9. API NUMBER: 4304739488	
14. DATE SPUDDED: 10/29/2007		10 FIELD AND POOL, OR WILDCAT NATURAL BUTTES	
15. DATE T.D. REACHED: 12/20/2007		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSW 13 10S 22E S	
16. DATE COMPLETED: 7/2/2012		12. COUNTY UINTAH	
ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>		13. STATE UTAH	
18. TOTAL DEPTH: MD 8,495 TVD 8,241		17. ELEVATIONS (DF, RKB, RT, GL): 5287 GL	
19. PLUG BACK T.D.: MD 8,450 TVD 8,196		21. DEPTH BRIDGE MD 6,320 PLUG SET: TVD	
20. IF MULTIPLE COMPLETIONS, HOW MANY? *		22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)	

23. WAS WELL CORED?	NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis)
WAS DST RUN?	NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report)
DIRECTIONAL SURVEY?	NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#	0	40		28			
12 1/4"	9 5/8" J-55	32#,36#	0	2,170		1,050			
7 7/8"	4 1/2" I-80	11.6#	0	8,495		1,560		310	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	6,246							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) WASATCH	5,424	6,315			5,424 6,315	0.36	66	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5424-6315	PUMP 2,173 BBLs SLICK H2O & 70,100 LBS 30/50 OTTAWA SAND
	3 STAGES

29. ENCLOSED ATTACHMENTS:

<input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS	<input type="checkbox"/> GEOLOGIC REPORT	<input type="checkbox"/> DST REPORT	<input type="checkbox"/> DIRECTIONAL SURVEY
<input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION	<input type="checkbox"/> CORE ANALYSIS	<input type="checkbox"/> OTHER: _____	

30. WELL STATUS

PROD

RECEIVED
SEP 25 2012

DIV OF OIL, GAS & MINING

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
		24					FLOWING
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:
							PROD

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	1,034
				BIRD'S NEST	1,284
				MAHOGANY	1,676
				WASATCH	4,144
				MESAVERDE	6,423

35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the recompletion history and perforation report. Csg in the well is as reported on the original Completion Report. New recompletion perforations are: Wasatch 5424-6315 ; existing perforations: Mesaverde 6456-8437'. An Iso plug separating new perforations from old perforations is at 6320'. Test info is production from new Wasatch perforations. An NOI will be submitted before ISO plug is drilled out. A hole was found in csg between 3023-3038. Pumped 30 sxs cement.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) CARA MAHLERTITLE REGULATORY ANALYSTSIGNATURE DATE 9/19/2012

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 1022-13M2CS BLUE	Wellbore No.	OH
Well Name	NBU 1022-13M2CS	Wellbore Name	NBU 1022-13M2CS
Report No.	1	Report Date	4/25/2012
Project	UTAH-UINTAH	Site	WHITE RIVER PAD
Rig Name/No.		Event	RECOMPL/RESERVEADD
Start Date	4/25/2012	End Date	6/29/2012
Spud Date	10/29/2007	Active Datum	RKB @5,306.00usft (above Mean Sea Level)
UWI	NBU 1022-13M-2CS		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

Fluid Type		Fluid Density	
Surface Press		Estimate Res Press	
TVD Fluid Top		Fluid Head	
Hydrostatic Press		Press Difference	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	5,424.0 (usft)-6,315.0 (usft)	Start Date/Time	4/25/2012 12:00AM
No. of Intervals	8	End Date/Time	4/25/2012 12:00AM
Total Shots	66	Net Perforation Interval	22.00 (usft)
Avg Shot Density	3.00 (shot/ft)	Final Surface Pressure	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

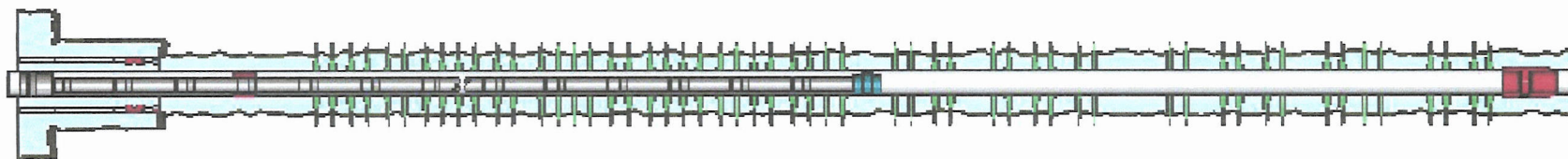
Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/25/2012 12:00AM	WASATCH/			5,424.0	5,426.0	3.00		0.360	EXP/	3.375	120.00			23.00 PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/25/2012 12:00AM	WASATCH/			5,493.0	5,495.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/25/2012 12:00AM	WASATCH/			5,623.0	5,626.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/25/2012 12:00AM	WASATCH/			5,778.0	5,779.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/25/2012 12:00AM	WASATCH/			5,794.0	5,796.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/25/2012 12:00AM	WASATCH/			5,955.0	5,959.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/25/2012 12:00AM	WASATCH/			6,300.0	6,305.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/25/2012 12:00AM	WASATCH/			6,312.0	6,315.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-13M2CS BLUE

Spud Date: 10/29/2007

Project: UTAH-UINTAH

Site: WHITE RIVER PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: RECOMPL/RESEREVEADD

Start Date: 4/25/2012

End Date: 6/29/2012

Active Datum: RKB @5,306.00usft (above Mean Sea Level)

UWI: NBU 1022-13M-2CS

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
5/2/2012	7:00 - 7:15	0.25	ABANDZ	48		P		HSM - JSA
	7:15 - 17:00	9.75	ABANDZ	31	I	P		NDWH, NUBOP, MIRU SCAN TECH, POOH SCAN L/D ON FLOAT 258 JTS 2 3/8" J-55 TBG, 189 JTS YELLOW 69 JTS (2,167") RED, RDMO SCAN TECH, MIRU J-W WIRELINE RIH W/ GAUGE RING & TRASH BASKET TO 6,415' NO TIGHT SPOTS CAME BACK CLEAN, RIH SET HAL 10K CBP @ 6,365', RDMO J-W, R/D FLOOR & TBG EQUIP, NDBOP, NUFV, SDFN
5/3/2012	9:55 - 14:45	4.83	ABANDZ	33	C	P		MIRU B & C QUICK TEST PRESS TEST FRAC VALVES & CSG TO 1,000 PSI FOR 15 MIN INC 12 PSI, 3,500 PSI FOR 15 MIN LOST 34 PSI, TRY TO PUMP UP TO 6,200 PSI, CAN'T GET ABOVE 5,900 PSI LOSES 1,000 PSI MIN, RDMO B & C, MIRU J-W WIRELINE, RIH SET HAL 10K CBP @ 6,320, RDMO J-W, MIRU B & C, CAN'T BUILD ABOVE 5,900 PSI LOSES 1,000 PSI MIN, RDMO B & C
5/4/2012	7:00 - 18:00	11.00		30		P		RD ON 1022-13M1S MOVE OVER AND RU RIG
								ND FRAC VALVES NU BOPES, RU FLOOR TONGS ETC PU WEATHERFORD 4 1/2 HD PKR, RIH WITH SAME @ 137 JTS 2 3/8" TBG TO 4318' SET PKR. RU B & C QUICK TEST ATTEMPT TO PRESSURE TEST CBP @ 6320' PRESSURED TBG TO 1900 PSI HAD COMMUNICATION W/ CSG, TEST DOWN CSG TO 4100 PSI SLOW BLEED OFF, MOVED PRK TO 4285, RESET PKR PRESSUED UP TBG, @ 1900 PSI HAD COMMUNICATION WITH CSG. PRESSURE CSG TO 4200 PSI, LOST 2200 PSI IN 45 MIN, WITH NO COMMUNICATION WITH TBG(CALLED ZACH GARRITTY WILL NOT FRAC THIS WELL)
								POOH LD 137 JTS 2 3/8" TBG @ PKR. PKR LOOKED NEW RD FLOOR TONGS ETC, ND BOPES INSTALLED TREE RD RIG & CIRCULATING EQUIP MOVED TO UPPER PAD
5/22/2012	7:00 - 7:15	0.25	FLOWBK	48		P		CREWS TRAVEL HSM-JSA

US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-13M2CS BLUE

Spud Date: 10/29/2007

Project: UTAH-UINTAH

Site: WHITE RIVER PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: RECOMPL/RESERVEADD

Start Date: 4/25/2012

End Date: 6/29/2012

Active Datum: RKB @5,306.00usft (above Mean Sea Level)

UWI: NBU 1022-13M-2CS

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 15:30	8.25	FLOWBK	33	C	P		<p>P/U WEATHERFORD 4 1/2" PKR RIH W/ 119 JTS 2 3/8" L-80 OFF FLOAT, SET PKR @ 3,708.12'.</p> <p>BRK CIRC W/ RIG PUMP, R/U B&C QUICK TEST, PRESS TEST DWN TBG @ 5,595 PSI, LOST 30 PSI IN 10 MIN, TEST DWN CSG @ 4,296 PSI LOST 1,000 PSI IN 1 MIN.RELEASE PKR POOH W/ 44 JTS</p> <p>SET PKR @ 2,340.17', PRESS TEST DWN TBG @ 4,366 PSI LOST 500 PSI IN 1 MIN, RELEASE PKR RIH W/ 22 JTS.</p> <p>SET PKR @ 3,023.81' PRESS TEST DWN TBG @ 4,226 PSI LOST 1,000 PSI IN 1 MIN, PRESS TEST DWN CSG LOST 20 PSI IN 5 MIN, RELEASE PKR RIH W/ 10 JTS.</p> <p>SET PKR @ 3,336.66' PRESS TEST DWN TBG @ 4,525 PSI, LOST 15 PSI IN 5 MIN, RELEASE PKR POOH W/ 6 JTS.</p> <p>SET PKR @ 3,149.51', PRESS TEST DWN TBG @ 4,530 PSI, LOST 22 PSI IN 5 MIN, RELEASE PKR POOH W/ 2 JTS.</p> <p>SET PKR @ 3,085.99', PRESS TEST DWN TBG @ 4,517 PSI, LOST 19 PSI IN 5 MIN, RELEASE PKR POOH W/ 1 JT.</p> <p>SET PKR @ 3,054.88', PRESS TEST DWN TBG @ 4,470 PSI, LOST 17 PSI IN 5 MIN, RELEASE PKR POOH 16'.</p> <p>SET PKR @ 3,038.88', PRESS TEST DWN TBG @ 4,523 PSI, LOST 17 PSI IN 5 MIN.</p> <p>HOLE IN CSG BETWEEN 3,023' & 3,038'.</p> <p>POOH W/ TBG L/D PKR, SWIFN</p> <p>SENT 189 JTS (5,942.92') 2 3/8" J-55 YELLOW BAND TO SAMUELS YARD HSM-JSA</p>
5/23/2012	7:00 - 7:15	0.25	RDMO	48		P		RIH W/ 119 JTS (3,692.39') 2 3/8" L-80 TBG, LAND
	7:15 - 9:00	1.75	RDMO	31	I	P		TBG, NDBOP, NUWH, RDMO
5/31/2012	7:00 - 7:15	0.25	FLOWBK	48		P		HSM-JSA
	7:15 - 15:00	7.75	FLOWBK	51	C	P		<p>MIRU YESTERDAY, NDWH, NUBOP, POOH W/ 10 STANDS TBG EOT @ 3,081', R/U HALIBURTON, PRESS TEST TO 5,000 PSI, PUMP 20 BBL FRESH WATER SPACER FOLLOWED BY 30 SKS FINECEM (13 LB/GAL, 4.12 GAL/SK) POOH W/ 12 STANDS EOT @ 2,335', REV CIRC 20 BBLs, PMP 1 BBL PRESS UP TO 1,950 PSI LOST 35 PSI IN 30 MIN, RDMO HALIBURTON, SHUT WELL IN UNTIL MONDAY</p> <p>STANDBY WAIT ON CEMENT UNTIL MONDAY</p>
6/1/2012	7:00 - 15:00	8.00	FLOWBK	46	B	P		

US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-13M2CS BLUE

Spud Date: 10/29/2007

Project: UTAH-UINTAH

Site: WHITE RIVER PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: RECOMPL/RESERVEADD

Start Date: 4/25/2012

End Date: 6/29/2012

Active Datum: RKB @5,306.00usft (above Mean Sea Level)

UWI: NBU 1022-13M-2CS

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
6/4/2012	7:00 - 7:15	0.25	FLOWBK	48		P		HSM-JSA
	7:15 - 16:00	8.75	FLOWBK	33	C	P		SICP 1,160 PSI, SITP 1,160 PSI, BLEED OFF PRESS, POOH W/ 75 JTS TBG, P/U 3 7/8" PDC BIT RIH W/ 91 JTS 2 3/8" L-80 TAG TOC @ 2,841', R/U PWR SWIVEL BRK CIRC, D/O 248' CMT FELL FREE @ 3,089', CIRC WELL CLEAN, R/D PWR SWIVEL, POOH STAND BACK TBG, R/D FLOOR & TBG EQUIP, NDBOP, NU TEST FLANGE, MIRU B&C QUICK TEST, PRESS TEST CSG @ 1,027 PSI LOST 22 PSI IN 15 MIN, @ 3,563 PSI LOST 21 PSI IN 15 MIN, @ 6,276 PSI LOST 71 PSI IN 30 MIN, R/D B&C, ND TEST FLANGE, NUBOP, R/U FLOOR & TBG EQUIP, RIH W/ 119 JTS 2 3/8" L-80 TBG, HANG OFF TBG EOT @ 3,712.22', R/D FLOOR & TBG EQUIP, NDBOP, NUWH, SWI, TOO WINDY TO RIG DOWN, RDMO IN AM
6/26/2012	12:00 - 16:00	4.00	FRAC	31	I	P		MIRU, NDWH, NUBOP, POOH STD BACK 119 JTS TBG, SWIFN
6/27/2012	7:00 - 7:15	0.25	FRAC	48		P		HSM-JSA
	7:15 - 18:00	10.75	FRAC	37	B	P		NDBOP, NUFV, MIRU B&C QUICK TEST PRESS TEST FV 6,200 PSI LOST 50 PSI IN 10 MIN, RD B&C, MIRU CUTTERS RIH W/ PERF GUNS STACK OUT @ 6,173' (142' ABOVE BTM PERF) POOH R/D CUTTERS, NDFV, NUBOP, P/U 3 7/8" BIT RIH W/ 59 STDS TBG P/U TBG OFF FLOAT CONT TO RIH TO 6,173' PUSH PLUG DOWN TO ISO PLUG @ 6,320', REV CIRC HOLE CLEAN, POOH L/D 31 JTS TBG STD BACK 172 JTS, R/D FLOOR & TBG EQUIP, NDBOP, NUFV, R/U FLOOR, SWIFN
6/28/2012	7:00 - 7:15	0.25	FRAC	48		P		HSM-JSA

US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-13M2CS BLUE

Spud Date: 10/29/2007

Project: UTAH-UINTAH

Site: WHITE RIVER PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: RECOMPL/RESEREVEADD

Start Date: 4/25/2012

End Date: 6/29/2012

Active Datum: RKB @5,306.00usft (above Mean Sea Level)

UWI: NBU 1022-13M-2CS

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 16:00	8.75	FRAC	36	B	P		MIRU CUTTERS & SUPERIOR
								PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE.120 DEG PHASING. RIH PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.
								PRESS TEST FRAC LINES TO 7,265 PSI LOST 655 PSI IN 15 MIN POP OFF SET @ 6,100 PSI.
								FRAC STG 1)WHP 113 PSI, BRK 3,515 PSI @ 3.8 BPM. ISIP 1147 PSI, FG .62. CALC PERFS OPEN @ 45.2 BPM @ 3,899 PSI = 71% HOLES OPEN. (17/24 HOLES OPEN) ISIP 1,958 PSI, FG .75, NPI 811 PSI. MP 3,969 PSI, MR 46.5 BPM, AP 3,534 PSI, AR 43.7 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.
								PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 5,989' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.
								FRAC STG 2)WHP 188 PSI, BRK 2,500 PSI @ 3.8 BPM. ISIP 1,475 PSI, FG .69. CALC PERFS OPEN @ 43.1 BPM @ 5,634 PSI = 62% HOLES OPEN. (13/21 HOLES OPEN) ISIP 1,803 PSI, FG .75, NPI 328 PSI. MP 5,917 PSI, MR 48 BPM, AP 4,304 PSI, AR 42.8 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.
								PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 5,656' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.
								FRAC STG 3)WHP 232 PSI, BRK 1,904 PSI @ 3.6 BPM. ISIP 401 PSI, FG .51. CALC PERFS OPEN @ 46.4 BPM @ 3,839 PSI = 71% HOLES OPEN. (15/24 HOLES OPEN) ISIP 1,420 PSI, FG .70, NPI 1,019 PSI. MP 4,142 PSI, MR 52.3 BPM, AP 3,595 PSI, AR 51.3 BPM, PUMPED 30/50 OWATTA SAND. SWI. X-OVER FOR WL.
								PU 4 1/2 8K HAL CBP. RIH SET CBP @ 5,374'. POOH, SWI. DONE FRACING THIS WELL.
								TOTAL SAND = 70,100 LBS TOTAL CLFL = 2,173 BBLs

US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-13M2CS BLUE

Spud Date: 10/29/2007

Project: UTAH-UINTAH

Site: WHITE RIVER PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: RECOMPL/RESEREVEADD

Start Date: 4/25/2012

End Date: 6/29/2012

Active Datum: RKB @5,306.00usft (above Mean Sea Level)

UWI: NBU 1022-13M-2CS

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
6/29/2012	7:00 - 7:15	0.25	DRLOUT	48		P		<p>RDMO CUTTERS & SUPERIOR, NDFV, NUBOP, P/U 3 7/8" BIT PUMP OPEN BIT SUB & XN SN, RIH W/ TBG TO KILL PLUG @ 5,374'. PRESS TEST BOP TO 3,000 PSI LOST 0 PSI IN 15 MIN, SWFN.</p> <p>HSM-JSA</p> <p>R/U PWR SWIVEL, BRK CIR W/ RIG PUMP.</p> <p>C/O 5' SAND TAG PLUG #1 @ 5,374' DRL HAL 8K CBP IN 12 MIN 0 PSI INC FCP 50 PSI. RIH TAG FILL @ 5,636'.</p> <p>R/U WEATHERFORD FOAM UNIT BRK CIRC.</p> <p>C/O 30' SAND TAG PLUG #2 @ 5,656' DRL HAL 8K CBP IN 10 MIN 100 PSI INC FCP 250 PSI, RIH TAG FILL @ 5,964'.</p> <p>C/O 25' SAND TAG PLUG #3 @ 5,989' DRL HAL 8K CBP IN 10 MIN, 300 PSI INC, FCP 450 PSI, RIH TAG FILL @ 6,300'.</p> <p>WASH DWN TO ISO PLUG @ 6,320' CIRC WELL CLEAN, R/D PWR SWIVEL, POOH L/D 3 JTS LAND TBG W/ 200 JTS 2 3/8" L-80 EOT @ 6,245.80'. R/D FLOOR & TBG EQUIP, NDBOP, NUWH, DROP BALL PUMP OPEN BIT SUB @ 1,200 PSI, CIRC WELL W/ FOAM UNIT, R/D FOAM UNIT, RDMO, TURN WELL OVER TO FBC, SDFWE.</p> <p>KB-19' HANGER-.83' 200 JTS 2 3/8" L-80 - 6,222.67' PUMP OPEN BIT SUB-3.30' EOT@6,245.80'</p> <p>TWTR=2,373 BBLS TWR=650 BBLS TWLTR=1,723 BBLS</p>
	7:15 - 15:30	8.25	DRLOUT	44	C	P		

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME UTU63047A
b. TYPE OF WORK: NEW WELL <input type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input checked="" type="checkbox"/> OTHER RECOMPLETION		8. WELL NAME and NUMBER: NBU 1022-13M2CS
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE, L.P.		9. API NUMBER: 4304739488
3. ADDRESS OF OPERATOR: P.O.BOX 173779 CITY DENVER STATE CO ZIP 80217		10. FIELD AND POOL, OR WILDCAT NATURAL BUTTES
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: NWSW 1552 FSL1289 FWL S13,T10S,R22E AT TOP PRODUCING INTERVAL REPORTED BELOW: SWSW 815 FSL 424 FWL S13,T10S,R22E AT TOTAL DEPTH: SWSW 696 FSL 331 FWL S13,T10S,R22E		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSW 13 10S 22E S
		12. COUNTY UINTAH
		13. STATE UTAH

14. DATE SPURRED: 10/29/2007	15. DATE T.D. REACHED: 12/20/2007	16. DATE COMPLETED: 7/2/2012	ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): 5287 GL
18. TOTAL DEPTH: MD 8,495 TVD 8,241	19. PLUG BACK T.D.: MD 8,450 TVD 8,196	20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD 6,320 PLUG SET: TVD
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)			23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit copy)	

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#	0	40		28			
12 1/4"	9 5/8" J-55	32#,36#	0	2,170		1,050			
7 7/8"	4 1/2" I-80	11.6#	0	8,495		1,560		310	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	6,246							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) WASATCH	5,424	6,315			5,424 6,315	0.36	66	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5424-6315	PUMP 2,173 BBLs SLICK H2O & 70,100 LBS 30/50 OTTAWA SAND
	3 STAGES

29. ENCLOSED ATTACHMENTS:

- ☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER: _____

30. WELL STATUS:

PROD

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD: FLOWING
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS: PROD

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	1,034
				BIRD'S NEST	1,284
				MAHOGANY	1,676
				WASATCH	4,144
				MESAVERDE	6,423

35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the recompletion history and perforation report. Csg in the well is as reported on the original Completion Report. New recompletion perforations are: Wasatch 5424-6315 ; existing perforations: Mesaverde 6456-8437'. An Iso plug separating new perforations from old perforations is at 6320'. Test info is production from new Wasatch perforations. An NOI will be submitted before ISO plug is drilled out. A hole was found in csg between 3023-3038. Pumped 30 sxs cement.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) CARA MAHLERTITLE REGULATORY ANALYSTSIGNATURE DATE 9/19/2012

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation

- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340
Fax: 801-359-3940

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: STUO-08512-ST
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 1022-13M2CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1552 FSL 1289 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 13 Township: 10.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047394880000
5. FIELD and POOL or WILDCAT: NATURAL BUTTES		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/19/2012 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <div style="display: flex;"> <div style="flex: 1;"> <p>The operator has performed the recompletion and submitted a completion report on the subject well. When the completion report was submitted the existing perforations and the new perforations were not commingled. At this time we would like to drill out the isolation plug to commingle the perforations. Please see attached procedure. Thank you.</p> </div> <div style="flex: 0.5; text-align: right; padding-right: 20px;"> <p>Approved by the Utah Division of Oil, Gas and Mining</p> <p>Date: <u>October 09, 2012</u></p> <p>By: <u><i>Derek Duff</i></u></p> </div> </div>		
NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I
SIGNATURE N/A		DATE 9/19/2012

Workover – Isolation Plug Drillout

Name: NBU 1022-13M2CS

Location: SW NW SW SW Sec 13 T10S R22E

Procedure Outline

- MIRU, unland L-80 tbg and POOH (EOT @ 6246'). Scan tbg, once first joint fails (+30% wall loss), break every connection and visually inspect pins and upset. L/D any suspect jts.
- Take and submit solid sample to engineer if applicable.
- RIH w/ mill and C/O CBP @ 6365' and continue to C/O to 8450' (Be cautious of old POBS, last workover could only get to 8432') POOH.
- RIH and land EOT @ +/- 7395'. Broach tbg and ensure broach is full OD. Be careful not to over-torque any collars.

CONTACT INFORMATION

FOREMAN	Jay Aguiniga	435-828-6460
LEAD MECHANICAL	Ryan Kunkel	435-828 -4624
OPTIMIZER	Deven Oaks	435-828-4631
OPERATOR	Josh Harrison	435-828-4271
OPERATOR	Kimberly Horrocks	435-823-6515
ENGINEER	Ben Smiley	936-524-4231

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: STUO-08512-ST
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 1022-13M2CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1552 FSL 1289 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 13 Township: 10.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047394880000
PHONE NUMBER: 720 929-6111		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/5/2012	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TUBING	
	<input checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CASING REPAIR	
	<input type="checkbox"/> CHANGE WELL NAME	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. On 11/5/2012 the Iso-Plug set at 6320ft. was drilled out in seven minutes. This well is now comingled.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY March 26, 2014		
NAME (PLEASE PRINT) Teena Paulo	PHONE NUMBER 720 929-6236	TITLE Staff Regulatory Specialist
SIGNATURE N/A	DATE 3/26/2014	